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WEST VIRGINIA, U. S. A.

ANNUAL REPORT

OF THE

Department of Mines

FOR THE YEAR ENDING

JUNE 30th, 1912.

JOHN LAING

Chief of the Department of Mines

CHARLESTON.



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Union Publishing Co, Charleston, W. Va

PERSONNEL OF THE DEPARTMENT OF MINES.

John Laing, Chief of the Department of Mines.
Karl F. Schoew, Inspector for First District.
Frank E. Parsons, Inspector for Second District.
L. D. Vaughn, Inspector for Third District.
W. B. Plaster, Inspector for Fourth District.
Earl A. Henry, Inspector for Fifth District.
Bonner H. Hill, Inspector for Sixth District.
James Martin, Inspector for Seventh District.
R. Y. Muir, Inspector for Eighth District.
Lance B. Holliday, Inspector for Ninth District.
Arthur Mitchell, Inspector for Tenth District.
William Nicholson, Inspector for Eleventh District.
Patrick A. Grady, Inspector for Twelfth District.

APPOINTMENT FOR DISTRICT MINE INSPECTORS FOR TERM BEGINNING JULY 1st, 1909.

Karl F. Schoew, Appointed District Inspector for the 1st District, June 18th, 1909.

Frank E. Parsons, Re-appointed District Inspector for the 2nd District July 1st, 1909.

L. D. Vaughn, Appointed District Inspector for the 3rd District, July 29th, 1909.

W. B. Plaster, Appointed District Inspector for the 4th District, July 28th, 1909.

E. A. Henry, Re-appointed District Inspector for the 5th District, July 1st, 1909.

Bonner H. Hill, Re-appointed District Inspector for the 6th District, July 1st, 1909.

James Martin, Appointed District Inspector for the 7th District October 11th, 1909.

R. Y. Muir, Appointed District Inspector for the 8th District August 3rd, 1909.

L. B. Holliday, Re-appointed District Inspector for the 9th District, August 7th, 1909.

Arthur Mitchell, Appointed District Inspector for the 10th District, July 31st, 1909.

William Nicholson, Re-appointed District Inspector for the 11th District July 1st, 1909.

P. A. Grady, Re-appointed District Inspector for the 12th District, September 6th, 1909.

LETTER OF TRANSMITTAL.

DEPARTMENT OF MINES,
STATE OF WEST VIRGINIA.

To His Excellency,

WILLIAM ELLSWORTH GLASSCOCK,
Governor of West Virginia;

SIR:—In compliance with the Mining Law of the State of West Virginia, as amended by the Legislature in Regular Session, February 1907, I have the honor to submit herewith my fourth Annual Report for the Department of Mines for the year ending June 30th, 1912, being the eighth Annual Report of the Department of Mines and embracing the thirtieth annual report upon the condition of the coal mines within the State, as reported by the several District Inspectors.

Yours very respectfully,

JOHN LAING,
Chief of Department of Mines.

CHARLESTON, W. VA., December 16th, 1912.

ANNUAL REPORT.

ANNUAL REPORT.

To His Excellency,

WILLIAM ELLSWORTH GLASSCOCK,

Governor of West Virginia.

SIR:—The report herewith submitted is for the year ending June 30th, 1912, and is my fourth Annual Report of the Department of Mines, and embracing the thirtieth Annual Report upon the conditions of the coal mines within the State.

During the year, I am glad to report there has been a substantial improvement in the business conditions throughout the State and especially in regard to the mining and production of coal, which has resulted in an increased production over that of the year of 1911 as follows, in gross tons:—

	1911	1912	Increase or Increase Decrease in or de- tons. ease per cent.	
COAL	54,033,186	59,581,774	5,548,588	10.26
COKE	2,694,047	1,992,697	701,350	26.03

As will be seen from the above figures, showing the comparison of the last two fiscal years of this Department, the production of coal for the year covering this report, I am glad to say, has increased 5,548,588 gross tons, notwithstanding that during a part of the time the production was retarded on account of labor trouble and a general feeling of unrest among the laboring classes in all trades including mining, and, furthermore, the Presidential Election, which usually has much to do with business conditions.

In view of the distance from the market in which West Virginia coals are necessarily sold and the consequent difficulty of transportation, the continued increased production demonstrates the superior quality of the coal in this State as compared with its more favored competitors in other states, as well as the energy, capability and efficiency that characterize the men who are engaged in the business. It will be seen from tables contained in this report by comparing the coal production in this State for the past several years that we have been substantially increasing the production of coal to a very marked degree each year, which thoroughly demonstrates the alertness of the men interested in mining in West Virginia in continuously finding new markets to consume our coal, to take care of the millions of increased tons each year, which we regret to say is absolutely necessary, as but very little of the coal produced in West Virginia is consumed within its borders and which necessarily puts the operating companies to great expense, by way of demonstrating our product and finding foreign markets to take care of it.

INSPECTIONS

During the year the District Mine Inspectors have made 2226 inspections

and made official reports of same which were forwarded to this office and are now on file. In addition to these inspections, 298 special visits were made to the mines for various reasons, such as consulting with the mine officials in regard to improvements and developments being made, both inside and outside their mines, so that conformity to the law could be obtained, investigating fatal injuries sustained by employees, following up to see whether or not recommendations made by the inspectors had been put into effect, etc.

The spirit of harmony and co-operation that have been manifested by these conferences are commendable and argue well for the best interests of the operators and the persons employed in the mines with regard to their health and safety in securing all the safe guard for both life and property, so far as is required by law.

The State is divided into Twelve inspection districts and one inspector is assigned to each district and is held responsible for taking care of the mines in his district, in so far as his official duties as defined by law are concerned. It gives me pleasure to report that each of the inspectors have performed their duties in a most faithful manner during the year and it is in a great measure due to their faithful and efficient performance of duty that the gratifying results have been obtained as is set forth in other parts of this report.

In addition to their regular inspection work, each inspector has been engaged more or less during the year on work connected with examinations that have been held throughout the State to determine the efficiency of men holding the responsible positions of mine foremen and fire bosses.

MINE FOREMEN AND FIRE BOSS EXAMINATIONS.

A series of examinations for the purpose of testing the qualifications, experience and fitness of persons, to be put in charge of mines as mine foremen and fire bosses have been held at various places throughout the State by a board of examiners, selected from among the twelve District Mine Inspectors, under the direction of the Chief of Department of Mines and in each case the inspector in whose district the examination was being held, was a member of the Board.

The mining law of this State requires that competent men shall be appointed as mine foremen and fire bosses. A standard of competency must be established by which the persons who occupy these position are to be judged as to their qualifications, experience, ability and fitness to fill said positions, to meet with the requirements of the law. The Department of Mines being charged with the enforcement of the mining law, decided that it (The Department of Mines) should be the authority to determine this standard of competency, therefore, we appointed the Board of Examiners, whose duty it is to formulate questions and hold examinations, at which applicants can demonstrate their ability and fitness to hold said positions.

We do not, by any means, mean to say that all persons who pass the examinations are competent and when certificates are issued and the holders of same are later found to be incompetent or negligent and fail to perform their duties in a safe and proper manner their certificates are revoked and the company notified of the action of the Department and required to appoint a certified mine foreman or fire boss who can and will properly discharge their duties.

During the year ending June 30th, 1912, there were 730 persons examined, 420 of whom were successful in passing the examination as follows:

118.....	First Class Certificates.
281.....	Second class certificates.
21.....	Fire Boss certificates.

Since the beginning of this system of examinations for Mine foremen and fire bosses early in March, 1910, and up to and including June 30th, 1912, we have examined a total of 3,000 men, 1,663 of whom have been successful as follows:

745.....	First Class Certificates.
847.....	Second Class Certificates.
71.....	Fire Boss Certificates.

A detailed statement, with reference to these examinations showing the names of the persons examined, etc., is given in another part of this report.

RESIGNATIONS AND APPOINTMENTS.

There have been no resignations during the year ending June 30th, 1912, hence no appointments necessary and the personnel of this Department is given elsewhere in this report.

PRODUCTION OF COAL AND COKE.

From the 678 producing mines operated by 457 firms, together with the small country mines, the coal produced during the fiscal year ending June 30th, 1912, was 59,581,774 gross tons, an increase of 5,548,588 gross tons, or 10.26 per cent over the year ending June 30th, 1911.

The coke manufactured was 1,992,697 Net tons, a decrease as compared with the preceeding year of 701,350 net tons, or 26.03 per cent. The operating companies as a general proposition throughout the State have found the manufacturing of coke a very difficult proposition on account of securing labor for this kind of work, as well as the general market price for coke, due to its being manufactured in our larger cities cheaper than it can be done at the mines and consequently the production of coke in this State has been gradually decreasing on this account for several years.

Total value of coal produced was (59,581,774 G. T.).....	\$ 56,602,685.30
Value of coal used in operating mines was (1,154,313 G. T.).....	1,096,597.35
Value of coal sold local trade and tenants was (775,264 G. T.).....	736,500.80
Value of coal used in coke ovens was (2,955,581 G. T.).....	2,807,801.95
Value of coal shipped from mines was (54,396,616 G. T.).....	51,676,785.20
Value of coal mined by small country mines was (300,000 G. T.).....	285,000.00

Total	\$ 56,602,685.30
TOTAL VALUE OF COAL SOLD (55,471,880 G. T.).....	52,698,286.00
TOTAL VALUE OF COKE PRODUCED (1,992,697 Net Tons).....	3,605,781.57

TOTAL GROSS VALUE OF PRODUCT PLACED ON MARKET.....\$ 56,304,067.57

The increase in value over the previous year as follows:

COAL (Increase	\$ 4,680,266.58
COKE (Decrease)	1,432,086.32

Net increase in value of product (Coal and Coke)L.....\$ 3,248,180.26

The coal produced was disposed of in the following manner:

Produced by small country mines.....	300,00	Gross Tons
Used in operating mines.....	1,154,313	Gross Tons
Furnished local trade and tenants.....	775,264	Gross Tons
Used in coke ovens.....	2,955,581	Gross Tons
Shipped from the mines.....	54,396,616	Gross Tons

Total59,581,774 Gross Tons

The above tonnage compared with the previous year originated in the several Geographical Districts as follows:

DISTRICT	Year 1912	Year 1911	Increase or Decrease.
Potomac.....	1,959,580	1,920,402	39,178 I
Monongahela.....	12,828,379	11,682,982	1,145,397 I
Wheeling.....	1,719,180	1,484,955	234,225 I
Interior.....	353,486	263,378	9,892 I
Kanawha-New River.....	20,203,480	19,172,489	1,030,991 I
Norfolk & Western.....	22,217,669	19,208,980	3,008,689 I
Small Mines in State.....	300,000	300,000	
Totals.....	59,581,774	54,033,186	5,548,588 I

During the year there were 2,307 mining machines in use at 424 mines, employing 21,697 men and producing 30,467,193 gross tons of coal, which is 51.13 per cent of the total production of the State and which is 4,075,120 gross tons in excess of the machine mined coal during the year ending June 30th, 1911.

The following table exhibits the growth of machine mining since the year of 1897:

YEAR	Number of Mines Using Machines	Number of Machines in Use.	Total Employees Incident to Machines	Number of Tons Produced by Machines.	Percentage of Coal to Total Production.	Number of Days Worked.
1897.....	16	55	652	600,418	5.12	197
1898.....	28	96	933	1,070,293	7.4	214
1899.....	41	141	1,698	1,733,279	10.66	240
1900.....	63	241	2,371	2,637,611	13.43	261
1901.....	90	386	3,967	3,582,853	7.65	225
1902.....	124	524	4,813	5,135,823	21.98	249
1903.....	181	795	6,531	6,312,894	27.56	201
1904.....	248	988	8,395	8,317,692	30.82	209
1905.....	280	1,158	10,237	10,315,781	32.74	213
1906.....	301	1,267	10,855	13,333,602	35.65	231
1907.....	360	1,508	12,248	14,549,183	36.34	234
1908.....	399	1,657	14,377	15,387,695	38.09	211
1909.....	404	1,674	14,891	16,419,264	39.55	192
1910.....	475	1,967	16,991	23,263,675	44.14	229
1911.....	498	2,158	20,697	26,392,073	48.84	194
1912.....	424	2,307	21,697	30,467,193	51.13	224
Totals.....				179,518,329	Avg.	220

Tons for 1912 per each employee.....	1,404
Tons per each employee per year (Average for 16 years).....	1,385
Tons produced per each machine per year (Avg. 16 years).....	16,603
Average days worked per year (Average for 16 years).....	220
Average tons produced by one machine per day (Average 16 years).....	48.13

Average tons produced by one machine per month of 26 days (Average for 16 years)..... 1251.33

*TONS OF PICK MINED COAL PRODUCED BY EACH PICK MINER IN
COMMERCIAL COAL MINES 1897 TO 1912, INCLUSIVE.*

(TONS OF 2,240 POUNDS)

YEAR	Pick Coal from Commercial Mines	Pick Coal from Small County Mines	Pick Miners in Commercial Mines	Pick Miners in Small County Mines	Days Worked	Tons Produced in Commercial Mines per Miner
1897.....	10,971,482	133,929	13,218	No Record	197	830
1898.....	13,084,572	140,000	14,036		214	932
1899.....	14,366,871	150,000	14,119		240	1,017.5
1900.....	16,199,300	150,000	14,723		261	1,100
1901.....	16,533,138	175,000	16,000		225	995
1902.....	18,034,200	180,000	15,969		249	1,120.8
1903.....	16,420,804	180,000	16,287		201	1,008
1904.....	18,497,025	170,000	18,880		209	979.7
1905.....	21,007,248	180,000	19,602		213	1,071.7
1906.....	23,889,872	180,000	19,132		231	1,248.7
1907.....	25,311,128	180,000	19,287		234	1,312
1908.....	23,799,315	180,000	21,728		211	1,095.3
1909.....	25,094,502	180,000	22,583		192	1,110.3
1910.....	29,361,033	200,000	22,509		229	1,304.4
1911.....	27,341,113	300,000	21,247		194	1,286.8
1912.....	28,814,581	300,000	21,879		224	1,317

Average tons per year for each miner (16 years).....1,220
Average number of days worked per year (16 years)..... 220

ACREAGE MINED.

The total acreage of coal mined within the State, based upon returns made by the operators, and calculation made at this office, since 1897 are presented in the following table:

1897	1,733.9	Acres
1898	2,184.6	Acres
1899	2,361.2	Acres
1900	2,638.8	Acres
1901	2,854.6	Acres
1902	3,352.0	Acres
1903	3,222.3	Acres
1904	3,967.7	Acres
1905	4,691.8	Acres
1906	5,516.5	Acres
1907	5,779.7	Acres
1908	5,915.0	Acres
1909	6,608.0	Acres
1910	7,907.4	Acres
1911	10,801.8	Acres
1912	11,240.6	Acres

Total.....80,776.9 Acres

The mines in the State averaged 224 days as against 194 for the preceding year.

TRANSPORTATION OF COAL AND COKE.

During the year the railroads within the State report having handled a total of 60,579,797 net tons of coal and 2,339,683 net tons of coke, of which amounts there originated on the various lines 55,114,041 tons of coal and 1,760,861 tons of coke, while the operators report having shipped from the mines 61,260,209 net tons of coal. Between the tonnage originated on the railroads and that

reported as having been shipped from the mines, there is a difference of 6,146,168 tons in excess of the tonnage reported by the railroads. This may be accounted for by the railroads taking only into their records the commercial coal and not including their railroad fuel, while the mines report the actual tonnage from the mine weights. The railroads, as will be seen, report 231,836 tons less coke originating on the lines than the mines report shipping. This may be accounted for by the railroads taking only into their report coke which had passed over their scales at the close of the fiscal year and the difference, as indicated above would be moving between the various mines and the railroad yards, where railroad scales are located for the purpose of weighing this product.

RIVER SHIPMENTS.

For the fiscal year ending June 30th, 1912, the coal floated down the Great Kanawha River amounted to 688,939 Net Tons, as against 985,353 net tons the previous year.

There was no coal shipped down the Monongahela River from this State this year.

There were 14,193 net tons of coal shipped down the Ohio River from this State. This is the second year that coal shipments have been reported as being made on this river from West Virginia. This does not include the tonnage for fuel consumed by water craft and local river trade.

There was no coke shipped by water by either the Kanawha, Monongahela or Ohio Rivers from West Virginia during the year.

COKE OVENS AND COKE PRODUCED.

There are 120 coke plants in the State, which report a total of 18,751 coke ovens, of which number 6,957 were in actual operation for 140 days, there being 11,794 ovens reported as not being in use during the year.

There were 3,310,250 net tons of coal converted into coke, which gave a net yield of 1,992,697 net tons of coke and gave employment to 2,297 persons.

The decrease in the production of coke, as compared with the previous year was 701,350 tons, at a decreased valuation of \$1,432,086.32. The average price per ton of coke was \$1.81, a decrease of 6 cents per ton under the preceding year.

IMPROVEMENTS.

Quite a number of improvements have been made at the various mines throughout the State on their old plants, as well as in the opening up and re-equipping new mines as follows:

21 new coal plants, 38 power plants; 24 fans; 2 furnaces; 28 tipples and 33 additional openings at old mines.

A detailed table of improvements appears on a subsequent page, as well as in District Mine Inspector's Report of their respective mines, to which special attention is directed, which shows the improvements by Counties and Districts.

MEN EMPLOYED.

During the year there were employed at the mines and coke ovens an average

of 69,611 persons, a decrease under the previous year of 1,033. Of the total number employed, there were,

21,879.....	Pick Miners.
17,757.....	Machine Miners.
3,945.....	Machine Runners and Helpers.
13,277.....	Inside Laborers.
10,461.....	Outside Laborers.
2,297.....	Coke Workers.

Counting the superintendents, mine foremen, fire bosses, store managers, store and office clerks, it would be safe to add fifteen persons per mine employed in these capacities. Basing this estimate on the 678 producing mines, it would make a total of 10,170 men, or a grand total of employees directly connected with the operation of the mines of 79,781.

The nationalities of the persons employed in and around the mines is given in a tabulated form in another part of this report and the total of the various nationalities are as follows:

Americans (White).....	31,696
Negroes	13,403
Italians	9,701
Hungarians	4,942
Polish	2,293
Slavish	2,120
Austrian	1,091
Russian	863
Other Nationalities	3,502

Total.....69,611

WAGES.

The average price received by pick miners throughout the State per gross tons of run-of-mine coal was \$0.47 for 1912, as against \$0.44 1-3 for 1911. The average tonnage produced per each pick miner was 1.317 tons, an increase of 30.2 tons over 1911. The average annual wage of pick miners, (All pick miners included) was \$618.52, which was an increase of \$48.04 over that of the previous year.

STRIKES.

During the year there were 71 operations which reported strikes, which aggregated 8,936 employees thrown out of employment, with an estimated loss to employees of 90,804. There were 18 of these companies which reported loss to themselves, and which aggregated the sum of \$31,043.

All of the mines affected by these strikes, up to the close of this report, June 30th, 1912, made settlement by concessions granted by both the employee and employer and operations at all of these mines were resumed promptly

The following table shows the average price received for cutting and loading machine coal:

MACHINE MINING PRICES.

	1912	1911
Machine miners paid per ton run-of-mine in rooms.....	.29	.29
Machine miners paid per ton run-of-mine in headings.....	.37	.33
Machine miners paid per ton screened in rooms.....	.52 ¹ / ₂	.55
Machine miners paid per ton screened in headings.....	.65	.61
Machine miners paid per day.....	2.15	2.18
Machine runners paid 0er ton run-of-mine in rooms.....	.07	.09
Machine runners paid per rton run of-mine in headings.....	.10 ¹ / ₂	.12
Machine runners paid per car.....	.20	.20 ¹ / ₂
Machine runners paid per ton screened coal.....	.15 ³ / ₄	.17

The average selling price of all coal shipped from the mines was 95 cents per gross ton of run-of-mine coal, an average of (.03) three cents per ton under the price received during the year of 1911.

Coke was sold f. o. b. at the ovens at an average price during the year of \$1.81 per net ton, this price being a decrease under the previous year of (\$.06) six cents per ton.

ACCIDENTS.

During the year there were 409 lives lost in connection with the mining operations; of these, 392 were killed inside and 17 outside the mines.

There were 840 non-fatal accidents during the year, 757 of which occurred inside and 83 outside of the mines. This shows an increase in the number of accidents as compared with that of last year as follows:

YEAR	Fatal	Non-Fatal	Fatal Inside	Fatal Outside	Non-Fatal Inside	Non-Fatal Outside
1911.....	332	819	299	33	790	29
1912.....	409	840	392	17	757	83
	I 79	I 21	I 93	D 16	D 33	I 54

"D" Means Decrease. "I" Means Increase.

I regret to report that during the year we have had three explosions within the State; one at the Standard Pocahontas Coal Company's Mine, located two miles west of Welch, McDowell County, W. Va., August 1st, 1911; one at the Bottom Creek Mine, operated by the Bottom Creek Coal & Coke Company, Vivian, McDowell County, W. Va., November 20th, 1911, and one at the Jed Mine, operated by the Jed Coal & Coke Company, McDowell County, March 26th, 1912.

A detailed statement with reference to all three of these explosions will be found in another part of this report.

Falls of roof and coal and accidents from mine cars have been the chief factors in causing a large majority of the accidents in the mines. Investigations as to the cause of accidents from these three causes demonstrate that about 75 per cent of them were due to contributory negligence on the part of either the persons killed or injured or some other person, and should not have occurred at all if ordinary care had been taken to prevent them.

Strict discipline, vigorously enforced by the mine officials would reduce the number of accidents from these causes at least one-half.

PREVENTION OF ACCIDENTS.

In considering the prevention of accidents in our mines, it is deemed advisable to take up the cause of these accidents in order of their importance.

First: FALLS OF SLATE AND COAL. In looking over the accident reports, it has been found that many of these accidents are due to the carelessness of the injured, and strange as it may seem, quite a number of those injured are old and experienced men. They seem to take greater risks and continue to do so, notwithstanding the object lessons that are given them when other men are injured or killed under similar conditions.

Other causes are; insufficient timber, or timber improperly set, lack of judgment, lack of equipment in not providing tools to properly set up timbers to protect themselves, ignorance, lack of proper supervision and discipline by the mine officials.

In order to reduce accidents from this source to a minimum, there should be primarily rigid discipline, which means that when an employe is warned not to go into a place having a dangerous roof, he will **STAY OUT** until it is properly secured. It means also that when an employe is told to take down a bad piece of slate, he will do so at once and not wait until he completes the loading of the car or performs the other work at which he may be engaged at the time. He should further be instructed in the manner of setting his timber to protect himself.

He should be required to have the necessary tools for setting timber and pulling down and handling slate.

He should know how to sound the roof and line up his timber, how the timber should be spaced and how the cap pieces should be set in order to give him the best possible protection.

An inexperienced miner should never be permitted to work in a mine by himself, especially he must be kept out of places having bad roof.

Adequate supervision doubtless would greatly reduce the number of accidents from slate fall, both to experienced and inexperienced persons.

There seems to be a disposition, especially among experienced men, to ignore, or rather to forget the danger from bad roof. Loose pieces of slate should be marked and taken down as soon as possible, particularly should this be done on haulage roads and traveling ways.

The mine law requires the mine foreman, or his assistant, to visit each working place at least each alternate day. This we do not consider adequate supervision in mines having bad top. Not only the mine foreman, but his assistant, if necessary, should examine the timbering in each working place not less than once each day and warn the men of any danger and instruct them how to properly protect themselves from such dangers and above all to **REQUIRE THEM TO DO SO AT ONCE.**

Second. ACCIDENTS FROM MINE CARS. Accidents from this source, are, in a great many cases, due to a direct violation of the mine law and of the mine rules, and here again is the place to apply rigid discipline.

Accidents will not be reduced by simply posting a notice that "Employes (other than those whose duty it is to do so) must not ride on the empty or loaded cars." The rule should be enforced and the law should be strictly obeyed.

Where employes have to travel on haulage roads, either proper width of roadway should be maintained or suitable refuge holes properly placed and whitewashed, according to law, should be provided.

Where cars are hauled out of a dip entry (back into which they are liable to run in case a coupling should break) suitable drags and derailling devices should in all cases be used.

Lights should be places on all trips as provided by law.

At all mines, wherever possible a travelling way should be provided to be entirely independent of the haulage road. This will prevent either old or new men from getting confused and caught by trips if their lights should be extinguished in their effort to get out of the way of the moving cars.

Where employes ride to their work in special trips made up for this purpose, a moderate speed should be maintained and a track walker should precede the trip to see that no falls are on the track, and also to see that the track is in good condition, as well as the electric wires or ropes which propel the trip. Where electric motors are used, there should be arched headlights on the motors. These enable the motormen to see anything ahead for a considerable distance.

Miners should be instructed how to handle mine cars into and out of their working places, and they should be shown how to avoid dangers incident to the work.

There have been cases where accidents have occurred by gathering motors having pushed empty cars into rooms where an empty car was standing at the face of the room, catching the miner between the face and the car. A room latch which is controlled by a lever and weight would prevent an accident of this kind.

Third. **ELECTROCUTIONS.** During the year 13 lives were lost by electrocutions. From 1889 to 1912 there have been 90 persons who have lost their lives from this source, both within and without the mines. A careful scrutiny of the reports of these accidents for the last year, shows that about 90 per cent of the electrocutions were caused by a current of electricity exceeding 500 volts, while only about 10 per cent were caused where the voltage did not exceed 250 volts.

This is a striking illustration of the dangers incident to the use of electricity under high voltage and the comparative immunity secured to life by using low voltage. This is the more striking because of the fact that possibly not more than one-fifth of the mines in the State, which use electricity, have high voltage installations, and yet they produce five-sixths of the fatalities as against one-sixth produced by the low voltage installations.

The efficiency of the work done between high and low voltage in actual results is not materially different, the chief difference being the size and subsequent cost of the copper wire that conducts the electric current. The low voltage current requires a heavier wire with more copper in it than the high voltage does, and, therefore, the cost of the installation and maintenance is considerably greater.

In view, however, of the dangers to employes engaged in mining operations, and the greatly increased fatalities that result from the use of high voltage currents, it becomes a question whether any more economies of production can compensate for the increased risk to human lives. It is safe to say that if

low voltage currents had been used in all of the mines of the State, in all probability there would have been a great reduction in the number of fatalities from this cause.

In view of the above fact, I am of the opinion that any electric current carried into a mine exceeding 300 volts is unnecessarily dangerous to life and limb.

During the year 1912 the causes of accidents and lives lost inside summarized as follows:

Killed by explosions (all forms).....	106
Killed by falls of roof and coal.....	207
Killed by mine cars (inside and outside).....	36
Killed by electrocutions.....	13
Killed by other causes.....	47
Total.....	409

Since 1897 there have been killed inside the mines of the State as follows:

Killed by falls of roof and coal.....	1833
Killed by mine cars.....	350
Killed by gas explosions.....	149
Killed by dust explosions.....	590
Killed by electrocutions.....	90
Killed by other causes.....	530
Total.....	3542

The experience of persons killed and injured for the past twelve years from 1901 to 1912 inclusive, is as follows:

Having an experience of one year or less.....	2198
Having an experience of two to five years.....	3076
Having an experience of six to ten years.....	1453
Having an experience of eleven to twenty-five years.....	975
Having an experience of twenty-six to fifty years.....	170
Having an experience of many years.....	234
Having an experience of unknown years.....	1636
Total.....	9742

The above table shows conclusively that the persons with little experience are the persons who are most frequently injured or killed.

Since the year 1883 the average lives lost inside for every 1,000 persons employed inside the mines is 4.71.

Ratio per 1,000 employed inside during 1908.....	12.24
Ratio per 1,000 employed inside during 1909.....	6.72
Ratio per 1,000 employed inside during 1910.....	5.61
Ratio per 1,000 employed inside during 1911.....	5.17
Ratio per 1,000 employed inside during 1912.....	6.89

FATAL ACCIDENTS, THEIR CAUSES, SINCE 1897.

CAUSES	1897	1898	1899	1900	1901	1902
Fall of roof.....	47	67	64	61	76	79
Mine cars.....	6	6	7	11	11	13
Gas explosions.....	0	1	0	50	10	0
Dust explosions.....	0	0	0	0	0	0
All other causes.....	7	2	8	11	24	18
	60	76	79	133	121	110
CAUSES..	1903	1904	1905	1906	1907	1908
Fall of roof.....	96	95	105	99	130	155
Mine cars.....	12	12	18	16	20	28
Gas explosions.....	24	3	1	4	29	2
Dust explosions.....	0	0	0	0	0	368
All other causes.....	15	13	25	131	136	46
	147	123	149	250	315	599
CAUSES.	1909	1910	1911	1912		
Fall of roof.....	144	215	184	207		
Mine cars.....	31	44	54	36		
Gas explosions.....	3	1	3	18		
Dust explosions.....	116	0	24	83		
All other causes.....	70	60	62	65		
	364	320	332	409		

SUMMARY OF ACCIDENTS INSIDE THE MINES, 1912-1911.

	1912	1911	Changes
Number of employes inside.....	56,853	57,299	446-D
Number of days mines were operated.....	224	194	30-I
Number of persons killed inside.....	392	299	93-I
Number of days worked accomplished.....	12,735,072	11,483,802	1,251,270-I
Number killed per 1,000 inside.....	6.87	5.15	1.72-I
Number killed per 1,000 days work inside.....	.03078	.0263	.00448-I
Number injured non-fatally inside.....	757	790	33-D
Number injured per 1,000 inside.....	13,314	13,620	306-D
Number injured per 1,000 days work inside.....	.0594	.0687	.0093-D
Number of inside employes per each fatality inside.....	145	194	49-D

"I"—Means Increase. "D"—Means Decrease.

TONNAGE PER FATALITY.

Since the year 1883 the average tons of coal produced per each fatality inside have been 137,586 tons, including 1912, which is 151,994 tons per fatality. At these mines where fatal accidents occurred there was an average of one life lost for each 90,230 tons of coal produced.

The total 392 lives lost inside during the year occurred at 220 mines, employing 28,763 persons, and producing 35,370,160 gross tons of coal, while at all other mines there were produced 24,211,614 gross tons of coal without the loss of a single life inside the mines.

SAFETY POWDER AND SOLID SHOOTING.

The use of various brands of safety or permissible blasting powder has been employed in quite a number of the mines throughout the State where explosive gases are generated to any extent, and also in those mines that are dry and dusty. Their use has been made compulsory where such conditions exist.

Shooting coal on the solid has been nearly eliminated throughout the State, except where permission has been given by the District Mine Inspector, when in their judgment the character of the coal and the mining conditions will allow it to be done with reasonable degree of safety, and then, only under such conditions and restrictions as they prescribe. No permission is given under any circumstances where, in their judgment, the conditions are favorable to the initiation of a dust explosion.

The mine must be kept in a moist condition, either by sprinkling with water or the introduction of moisture into the ventilating current to such an extent as will allay all dust and prevent it from floating in the air current in dangerous quantities.

There must be a supervision in the manner in which the holes are drilled, the quantity of powder used and also the nature of the tamping used by the person who is designated by the mine foreman or superintendent for that purpose before any blasting is done.

It has taken strenuous work on the part of the district mine inspectors to break up the practice of solid shooting, but by persistent efforts and the enforcement of the law by numerous prosecutions, it has been accomplished. A list of names of those who have been prosecuted for violation of the mining laws appear in another part of this report.

Elsewhere in this report will be found the annual reports of the twelve district mine inspectors, which give in detail the conditions existing in the mines in their respective districts.

In conclusion, the writer desires to express his high appreciation of the confidence reposed in him by your Excellency and for the material and moral support you have given him in the discharge of duties pertaining to the work of the Department, the deep interest manifested by you in the accomplishment of results tending to safe guarding the health and lives of the persons employed in and about the mines is evidenced by the frequent conferences and consultations which you have had with myself and District Inspectors to keep you in close touch with the character and extent of the work.

The advice and encouragement given the Department at these conferences has stimulated and benefitted every member to accomplish results that would measure up to the standard of efficiency required by him.

Respectfully submitted,

JOHN LAING,

Chief of Department of Mines.

CHARLESTON, W. VA., December 17th, 1912.

RULES AND INSTRUCTIONS OF THE DEPARTMENT OF MINES GOVERNING THE WORK OF THE DISTRICT MINE INSPECTORS.

- 1.—Among the qualification for a District Mine Inspector, we consider that he must have a good character, common sense, sound judgment, dignity, sobriety and loyalty to the service of the State and to the Chief of the Department of Mines.
- 2.—Each Mine Inspector should live in his district, and as near the center of it as possible, in order that his expenses be reduced to a minimum.
- 3.—Conditions found in any mine should not be made a subject for discussion with the miners or officials of any other mine.
- 4.—All differences of opinion as to the work and duty of the District Inspectors must be referred to the Chief of the Dep't of Mines.
- 5.—Denunciation of one inspector by another will not be tolerated. In case it should become necessary to prefer charges of any kind against another inspector, they must be made in writing and be signed by the party who makes the charges.
- 6.—District Inspectors, like other citizens, and employees of the State, have the right to make appeals and reports to the Governor of the State, but where such appeals and reports refer to the work or duty of any of the District Inspectors, the Chief of the Department of Mines or any other employee thereof, or where the said reports refer to the condition of any of the mines of the State, a copy of the same must be sent to the Chief of the Department of Mines.
- 7.—District Inspectors will meet every three months at places and on dates to be designated by the Chief of the Department of Mines, for the purpose of discussing the work of the Dep't in the several Districts.
- 8.—In giving special orders, or where requests are made for important changes in a mine, care should be exercised so that they may be executed with the least possible interference with the working of the mine, or loss of time to employees or unnecessary expenditure of money to the Company. In all cases, be conservative, fair and lenient as the law and circumstances permit you to be, but if after such consideration you fail in your purpose and duty compels you to give an imperative order, do so in writing and in language the least possible objectionable, but with that firmness that will remove any doubt as to the standing and impartiality of those connected with this Department to all with whom you come in contact.
- 9.—District Mine Inspectors must make careful examination of gobs and old workings so as to be absolutely sure that no dangerous or noxious gasses of any kind exist therein.

It is required by this Department that District Inspectors examine all gobs for gas by going upon the falls as high as they possibly can consistent with safety.

- 10.—Whenever a District Inspector has reason to believe that the illuminating oils used in the mines are not fulfilling the requirements of the law, they must obtain a sample of this oil by purchase directly or indirectly and send it to the office of the Department of Mines to be tested. This sample should not be less than one pint.
- 11.—The attention of District Inspectors is called to the condition of air shafts in their respective districts. Where these air shafts constitute the second opening, they must be equipped with stairways or hoisting apparatus to afford the employes a means of ingress and egress. And District Inspectors must personally examine air shafts, and the stairways or hoisting apparatus therein so as to be sure they are free from ice and other obstructions.
- Hoisting shafts should be equipped with safety gates, safety catches fencing around the top, and a signalling pipe by means of which signals may be given and answered to and from the bottom, and to and from the engineer.
- Copies of the code of signals must be put in a frame covered with glass and posted at the bottom ground landing, and in the engine room.
- 12.—Oils or explosives must not be stored in the mines.
- 13.—Hay and straw when taken into the mines should be handled in bales and not taken in loose. Inspectors must insist upon this.
- 14.—At all shaft mines and at all other mines of a gaseous or dangerous character, a system of checking men in and out, which will show HOW MANY and WHO are in the mines at all times.
- 15.—All inspectors are requested to exercise care and economy in the use of supplies, instruments, etc.
- 16.—These rules are intended to supplement, not to supplant in any way, any of the requirements or provisions of the Mining Law of the State of West Virginia.

RULES GOVERNING SOLID SHOOTING.

- No. 1. Employ a competent shot-firer, whose duty shall be to fire all holes.
- No. 2. All working places must be kept in a "V" shaped condition and all holes must meet with the approval of the shot firer and be fired by the shot firer himself.

SUCCESSION OF THE PRINCIPAL COAL BEDS IN THE STATE OF WEST VIRGINIA, WITH NAMES COMMONLY USED FOR THEIR DESIGNATION.

Dunkard Series XVI.

1. Washington Coal.
2. Waynesburg A.

Monongahela Series XV.

1. Waynesburg.
2. Uniontown (Chestnut Oak.)
3. Sewickley.
4. Redstone.
5. Pittsburg Coal.

Conemaugh Series XIV.

1. Elk Lick, Four-foot—Mineral Co., Barton.
2. Harlm, Friendsville, Crinoidal.
3. Bakerstown, Price, Four-foot—Preston Co.
4. Brush Creek, Masontown, Mahoning.

Allegheny Series XIII.

1. Upper Freeport, Griffithsville.
2. Lower Freeport, Hubbardstown Upper.
3. Upper Kittanning.
4. Middle Kittanning, Hocking Valley, Hubbardstown Lower.
5. Lower Kittanning, "Roaring Creek," "No. 5 Block," "Big Bed," North Coalburg, Mason, Davis, O'Brien Creek.
6. Clarion, Brookville.

Kanawha Black Flint—Pottsville Series XII—Upper Pottsville or Kanawha Coals.

1. Stockton, Lewiston, Belmont, Cannelfon, Thomas, Savage.
2. Coalburg, Acme, (Buffalo Creek).
3. Winifrede, Kanawha, Black band.
4. Chilton.
5. Cedar Grove, Thacker.
6. Peerless, Alma.
7. No. 2 Gas, Campbell's Creek Warfield, Rawl, Ansted, Island Creek, Powellton Upper, Page Upper, Montgomery, "Coal Valley Gas Coal," Butler.
8. Powellton, Brownstown.
9. Eagle, No. 1 Gas Coal.
10. Little Eagle.
11. Upper War Eagle? (Possibly same as Eagle.)
12. Middle War Eagle.
13. Lower War Eagle.

Middle Pottsville or New River Coals.

1. Hughes Ferry, Long Point.
2. Jaeger.
3. Sewell, Nuttall, New River, Davy? Tug River?
4. Welch, Smith, Big Creek, Lambert, Dismal Creek, Hemphill, Tug River Smokeless.
5. Beckley, Winding Gulf, Slab Fork, Eccles Shaft, Raleigh, New River, White Stick, "Noah Jenkins," War Creek?
6. Fire Creek, Quinnimont, New River.
7. Little Fire Creek.

Lower Pottsville or Pocahontas Coals.

1. Thin Coals not mined (Pocahontas Nos. 9, 8, 7, 6, & 5.)
2. Pocahontas No. 4, Lower Horsepen?
3. Pocahontas No. 3, Echols? Flat Top.
4. Pocahontas No. 2 & 1, not mined.

NOTE:—Where the name of the coal is followed by an interrogation mark (?) there exists doubt as to the correlation.

LARGE PRODUCERS.

*THE FOLLOWING 71 COMPANIES EACH PRODUCED OVER 500,000
GROSS TONS OF COAL DURING THE YEAR ENDING
JUNE 30TH, 1912.*

The Consolidation Coal Company.....	4,546,504
United States Coal & Coke Company.....	2,638,776
Pocahontas Consolidated Collieries Company.....	1,933,943
Davis Coal & Coke Company.....	1,784,319
United States Coal & Oil Company.....	1,763,802
The New River Company	1,537,776
New River & Pocahontas Cons. Coal Company.....	1,311,464
Cabin Creek Consolidated Coal Company.....	1,171,036
Sunday Creek Company	1,094,591
Jamison Coal & Coke Company.....	1,001,025
Four States Coal & Coke Company	776,405
Hutchinson Coal Company	697,733
Boomer Coal & Coke Company	685,748
New River Collieries Company	647,176
McKell Coal & Coke Company.....	586,046
Davis Colliery Company	546,209
American Coal Company of Alleghany County.....	501,694
Elkins Coal & Coke Company	483,257
Federal Coal & Coke Company	451,032
Houston Coal & Coke Company	443,500
Virginia Pocahontas Coal Company	433,500
Raleigh Coal & Coke Company	429,339
E. E. White Coal Company	408,990
Gulf Smokeless Coal Company	401,281
Paint Creek Colliery Company	389,539
Pulaski Iron Company	378,331
Thacker Coal & Coke Company	357,850
The Virginia & Pittsburg Coal & Coke Co.....	349,395
Red Jacket Consolidated Coal & Coke Co.....	343,745
Cannelton Coal & Coke Company	341,110
Crozier Coal & Coke Company	329,626
J. B. B. Coal Company	329,067
Campbells Creek Coal Company	324,073

Page Coal & Coke Company	321,815
Turkey Gap Coal & Coke Company	317,696
Loup Creek Colliery Company	303,570
Hitchman Coal & Coke Company	302,812
Upland Coal & Coke Company	302,229
West Virginia Colliery Company	300,969
West Virginia & Pittsburg Coal Company	300,459
Powhatan Coal & Coke Company	299,935
Solvay Collieries Company	297,500
The Century Coal Company of West Virginia	294,472
Madeira-Hill-Clark Coal Company	283,344
Slab Fork Coal Company	282,736
Glen Alum Coal Company	281,282
Richland Coal Company	262,300
Pincy Mining Company	250,411
The Empire Coal & Coke Company	249,835
Ashland Coal & Coke Company	247,132
McDowell Coal & Coke Company	245,708
Keystone Coal & Coke Company	241,698
Wyatt Coal Company	240,118
Lynchburg Coal & Coke Company	237,154
Rosemont Coal Company	236,306
McAlpin Coal Company	233,550
Middle States Coal & Coke Company	229,460
Bottom Creek Coal & Coke Company	228,206
Eurcka Coal & Coke Company	226,448
The Monitor Coal & Coke Company	225,889
Algoma Coal & Coke Company	218,195
LaBelle Iron Works	216,682
The King Coal Company	211,893
Merchants Coal Company of Pennsylvania	211,792
M. B. Coal & Coke Company	211,437
Kellys Creek Colliery Company	209,114
The Marmet Coal Company	206,512
Buckeye Coal & Coke Company	206,374
Cumberland Coal Company	205,564
Peerless Coal & Coke Company	205,443
The New Central Coal Company	201,200
Total	38,983,122

The above statement, as will be seen, shows a total of 38,983,122 gross tons of coal produced by 71 of the companies in the State of West Virginia, during the year ending June 30th, 1912, who have produced more than 200,000 tons of coal. The grand total of the coal produced for the year, including all mines, was 59,581,774 gross tons, which leaves a balance of 20,598,652 gross tons produced by the other producing companies of the State, who did not get out as much as 200,000 gross tons each.

STATISTICAL.

*PROSECUTIONS FOR VIOLATION OF THE MINING LAWS DURING
THE YEAR ENDING JUNE 30TH, 1912.*

(By Districts and Counties.)

DISTRICT	COUNTY	Violations of Oil Regulations	Solid Shooting	Taking Excess Powder	Miscellane- ous.	Totals.
First.....	Marion.....				1	1
Third.....	Taylor.....		1			1
Tenth.....	Mercer.....		7			7
.....	McDowell.....	2	3			5
Eleventh.....	McDowell.....		1			1
Twelfth.....	Mingo.....	2		8		10
Totals.....		4	12	8	1	25

PROSECUTIONS.

Below is a list showing the names of persons prosecuted for violation of the mining laws and mine Inspectors' instructions during the year ending June 30th, 1912.

Marion County.

December 7th, 1911.—Robert McNeel, Driver Boss, employed by the Jamison Coal & Coke Company, was prosecuted by Karl F. Schoew, Inspector; tried before Justice Court for violation of Section 15 of the Mining Law and fined, including costs, \$6.00.

Taylor County.

November 6th, 1911.—H. G. Smith, Miner, employed by the Harrison Coal Company, was prosecuted by L. D. Vaughan, Inspector; tried before Justice Court for violation of Section 15 of the Mining Law and fined \$10.00 and costs.

Mercer County.

December 1st, 1911.—Laudra Sara, Miner, employed by the Pocahontas Consolidated Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and fined \$13.35 and costs.

December 1st, 1911.—Soyas Peterosaka, Miner, employed by the Pocahontas Consolidated Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and fined \$13.35 and costs.

December 1st, 1911.—James Polinski, Miner, employed by the Pocahontas Consolidated Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and fined \$13.35 and costs.

December 26th, 1911.—William Lott, Miner, employed by the Buckeye Coal & Coke Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and attempting to blow up mine and was fined \$25.00 and Costs and sentenced to County Jail for term of 90 days.

December 26th, 1911.—York Watkins, Miner, employed by the Buckeye Coal & Coke Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and attempting to blow up mine but was dismissed.

May 16th, 1912.—Yeako Runiski, Miner, employed by the Pocahontas Consolidated Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and fined \$14.40 and costs.

May 16th, 1912.—Yanko Shodo, Miner, employed by the Pocahontas Consolidated Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for solid shooting and fined \$14.90 and costs.

McDowell County.

December 6th, 1911.—Sam Menni, Miner, employed by the Roanoke Coal & Coke Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for burning black oil and fined \$5.00 and costs.

December 6th, 1911.—Dominick Menni, Miner, employed by the Roanoke Coal & Coke Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for burning black oil and fined \$5.00 and costs.

December 12th, 1911.—T. J. Phillips, Miner, employed by the Pocahontas Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for shooting coal from the solid and fined \$10.00 and costs.

December 12th, 1911.—James Taylor, Miner, employed by the Pocahontas Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for shooting coal from the solid and fined \$10.00 and costs.

December 12th, 1911.—Floyd Jones, Miner, employed by the Pocahontas Collieries Company, was prosecuted by A. Mitchell, Inspector; tried before Justice Court for shooting coal from the solid and fined \$10.00 and costs.

May 4th, 1912.—Angelo Dofino, Miner, employed by the Keystone Coal & Coke Company, was prosecuted by William Nicholson, Inspector; tried before Justice Court for shooting coal from the solid and fined \$10.00 and costs.

Mingo County.

August 24th, 1911.—Charley Feredo, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Section 11 of Mine Law in carrying excess powder into mine and fined \$5.00 and costs.

August 24th, 1911.—Curtis Austin, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Section 11 of the Mine Law in carrying excess powder into Mine and fined \$5.00 and costs.

August 24th, 1911.—Fail Foster, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Section 11 of the Mine Law in carrying excess powder into mine and fined \$5.00 and costs.

August 24th, 1911.—Fail Foster, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Section 11 of the Mining Law in carrying excess powder into mine and fined \$5.00 and costs.

August 24th, 1911.—Early Jones, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for for violating Section 11 of the Mining Law in carrying excess powder into mine and fined \$5.00 and costs.

August 24th, 1911.—Wilbur Warden, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Section 11 of the Mine Law in carrying excess powder into mine and fined \$5.00 and costs.

October 23rd, 1911.—Jess Hoover, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating of oil regulations and fined \$15.00 and costs.

October 23rd, 1911.—Booker Harston, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating oil regulations and fined \$15.00 and costs.

January 10th, 1912.—Cherry Grannetto, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Mining Law in taking excess powder into mine and fined \$15.00 and costs.

January 10th, 1912.—Leon Dominie, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for violating Mining Law in taking excess powder into mine and fined \$15.00 and costs.

January 12th, 1912.—Dan Hubbard, Miner, employed by the Thacker Coal & Coke Company, was prosecuted by P. A. Grady, Inspector, before Justice Court for carrying excess powder into mine and fined \$15.00 and costs.

EXAMINATIONS OF MINE FOREMEN AND FIRE BOSSES DURING THE YEAR ENDING JUNE 30TH, 1912.

The Department has continued its system of examining applicants for certificates for mine foremen and fire bosses during the past year and up to the close of this report and since the beginning of these examinations, in the early part of March, 1910 and up to and including June 30th, 1912, we have examined a total of 3,000 men, 1663 of whom have been successful as follows:

745.....	First Class Certificates
847.....	Second Class Certificates
71.....	Fire Boss Certificates

A detailed statement, showing the names and addresses of the successful applicants during the year ending June 30th, 1912, appears elsewhere in this report.

During the year we have conducted examinations at the following places and dates:

Welch, July 26-27, 1911.
 Beckley, August 9-10, 1911.
 Elkins, August 16-17, 1911.
 Wheeling, August 23-24, 1911.
 Logan, August 30-31, 1911.
 Charleston, September 27-28, 1911.
 Charleston, December 13-14, 1911.
 Grafton, December 13-14, 1911.
 Welch, December 13-14, 1911.

We have noticed a very marked improvement in the efficiency of mine foremen and fire bosses since we began this system of examinations, due, we believe to men holding and aspiring to such positions, realizing that unless they take an interest and study mining conditions constantly, during their hours of employment in and around the mines to qualify them to pass these examinations and in the event they fail to do so, they will sacrifice their positions, hence

thy are continuously striving to improve themselves and at the same time, give better service to their employer and protection of life and property. We believe that these examinations, for reasons explained above, have also prevented many accidents in and around the mines and I am pleased to report that the operators, managers, superintendents, foremen and fire bosses and others connected with the mines and mining, have given this Department their hearty co-operation in conducting these examinations, which is appreciated by the entire Department of Mines.

The following is a list of names and addresses of persons to whom certificates have been issued during the year ending June 30th, 1912, divided into First Class Mine Foremen; Second Class Mine Foremen and Fire Bosses, alphabetically arranged.

FIRST CLASS CERTIFICATES.

NAME.

ADDRESS.

A.

Akers, Henry.....Wilcoe, W. Va.
Abercrombie, JamesBowder, Ky.

B.

Barber, BabeVivian, W. Va.
Boyd, A.Wright, W. Va.
Bircher, Chas.Chiefton, W. Va.
Brown, Demund O.Enterprise, W. Va.
Baillie, Geo.Steubenville, Ohio.
Baillie, Allen S.Steubenville, Ohio.
Buka, Robt.Worthington, W. Va.
Brent, K. C.Thorpe, W. Va.
Bain, JamesKeeferton, W. Va.
Bashore, Chas. F.Keyser, W. Va.
Bennett, W. M.Haywood, W. Va.

C.

Connor, Chas. W.Coalwood, W. Va.
Connor, Chas.Thomas, W. Va.
Costella, P. D.Boyle, W. Va.
Cameron, S. A.Monongah, W. Va.
Cameron, G. M.Thorpe, W. Va.
Creakman, MattNorth Fork, W. Va.
Craft, Chas. T.Bramwell, W. Va.

D.

Dixon, JamesCoalwood, W. Va.
Disney, Geo. H.Coalwood, W. Va.
Dalton, A. J.Powhatan, W. Va.
Duffy, JosephAlbert, W. Va.
Dean, D. L.Rivesville, W. Va.

E.

Esser, E. M.Gary, W. Va.
Elsess, J. R.Clarksburg, W. Va.

NAME.

ADDRESS.

F.

Farquharson, D. W.	Landgraff, W. Va.
Fitzgibbons, H.	Switchback, W. Va.
Franklin, L. E.	Olmsted, W. Va.

G.

Graham, H. T.	Thorpe, W. Va.
Gardner, J. H.	Pocahontas, Virginia.
Garvey, J. J.	Thomas, West Va.
Graves, Albert	Middleton, W. Va.

H.

Hough, H. N.	Lumberport, W. Va.
Hay, T. T.	Watson, W. Va.
Hunter, Matt Gray	Ethel, W. Va.
Happerset, H. G.	Hiawatha, W. Va.
Hill, Ray E.	Big Four, W. Va.
Horne, Harry	Gary, W. Va.
Hollins, F. A.	Vivian, W. Va.
Hall, J. H.	Glen Jean, W. Va.
Holbaugh, Harry R.	Carlisle, W. Va.
Haskins, H. C.	Hartridge, W. Va.
Henderson, L. E.	Chiefton, W. Va.
Hall, Robt.	Farmington, W. Va.
Hamrick, Geo.	Montana Mines, W. Va.

I.

Isner, O. C.	Simpson, W. Va.
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J.

Johnson, James E.	Vivian, W. Va.
Jack, David	Moundsville, W. Va.
Johnson, W. W.	Ansted, W. Va.
Jenkins, A. N.	Manbar, W. Va.
Johnson, Chas.	Big Chimney, W. Va.
Jarrett, Thomas	Meadowbrook, W. Va.
Jack, John	Fairmont, W. Va.

K.

Kearns, John	Elbert, W. Va.
Knight, Grove	Dola, W. Va.

L.

Longmire, P. C.	Coalwood, W. Va.
Lilly, M. M.	Slemp, W. Va.
Law, Jno.	Winifrede, W. Va.
Lawson, A. E.	Elbert, W. Va.
Lax, Chas. D.	Coalwood, W. Va.

NAME.	ADDRESS.
Lindsey, David	Minden, W. Va.
Lewis, W. D.	Grant Town, W. Va.
Laubenstein, Edw. W.	Clarksburg, W. Va.
Lang, Thos. A.	Grafton, W. Va.

M.

Mathis, Rome	Eckman, W. Va.
Martin, John T.	Monongah, W. Va.
Mason, J. E.	Shinnston, W. Va.
Miller, J. L.	Middleton, W. Va.
Murphy, J. A.	Enterprise, W. Va.
Monk, Leonard	Slab Fork, W. Va.
McKee, Campbell	Winifrede, W. Va.
McDonnell, Thos.	Reynoldsville, W. Va.
McClusky, F. D.	Glen Alum, W. Va.

O.

Otey, W. A.	Acme, W. Va.
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P.

Pethaski, Thos.	Eccles, W. Va.
Prentice, John	Winifrede, W. Va.
Powell, W. H.	Yukon, W. Va.
Pilling, Augustus	Stuart, W. Va.
Page, E. R.	Ansted, W. Va.
Pollock, Thos.	Clarksburg, W. Va.

Q.

Quinn, Patrick	Farmington, W. Va.
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R.

Roberts, Morgan	Wingrove, W. Va.
Roberts, A. C.	Glen White, W. Va.
Russell, Jno. S.	Worthington, W. Va.
Raisback, James	Welch, W. Va.
Richardson, John	Minden, W. Va.
Reese, A. B.	Kaymoor, W. Va.
Roebuck, Samuel	Wevaco, W. Va.
Ritter, J. H.	Arden, W. Va.
Riggins, Jno. C.	Clarksburg, W. Va.

S.

Shanks, Jno. H.	Raleigh, W. Va.
Stephens, Seth	Moundsville, W. Va.
Smith, T. H.	Saginaw, Michigan.
Somers, James	Fort Branch, W. Va.
Simeox, F. R.	Switchback, W. Va.
Symon, Geo.	Winifrede, W. Va.

NAME.	ADDRESS.
South, L. J.	Eckman, W. Va.
Smith, Joseph W.	Elkhorn, W. Va.
Sligh, J. C.	Minden, W. Va.
Stevenson, L. C.	Newburg, W. Va.
Spenser, Arthur B.	Mt. Clare, W. Va.
Shiel, M. J.	McWhorter, W. Va.
Sharpener, J. J.	McWhorter, W. Va.

T.

Thomas, Albert E.	Gary, W. Va.
Thompson, A. B.	Gauley Bridge, W. Va.
Triplett, Jasper	English, W. Va.
Thompson, L. E.	Monongah, W. Va.
Tibbets, C. R.	Beryl, W. Va.

V.

Vacheresse, Edward	Red Jacket, W. Va.
Vanseoy, O. M.	Gypsey, W. Va.

W.

Waldron, Ronald V.	Coalwood, W. Va.
Williams, F. E.	Farmington, W. Va.
Wilson, W. A.	Gary, W. Va.
Wallace, L. H.	Yukon, W. Va.
Welty, C. F.	Barracksville, W. Va.

SECOND CLASS CERTIFICATES.

A.

Abercrombie, John	Monongah, W. Va.
Altizer, G. T.	Davy, W. Va.
Atkins, Floyd	Elk Garden, W. Va.
Anderson, C. P.	Aeme, W. Va.
Ashcroft, W. T.	Middleton, W. Va.

B.

Buchanan, Ed.	Glen Alum, W. Va.
Bishop, A. M.	Gary, W. Va.
Brennan, Frank	Glen White, W. Va.
Bissett, W. J.	Coalton, W. Va.
Bogart, R. K.	Junior, W. Va.
Eyers, Henry	Beryl, W. Va.
Barton, David A.	Dellslow, W. Va.
Ralston, J. Y.	Masontown, W. Va.
Bishoff, J. W.	Coalton, W. Va.
Burke, Mike	Grant Town, W. Va.
Bowman, Otha L.	Montana Mines, W. Va.
Booth, W. C.	Harding, W. Va.

NAME.	ADDRESS.
Burwell, T. J.	Maybeury, W. Va.
Bohen, Con.	Big Four, W. Va.
Bowles, Robert.	Maybeury, W. Va.
Burton, William.	Pocahontas, Virginia.
Barnett, Sherrill S.	War Eagle, W. Va.
Bowman, M. T.	Cinderella, W. Va.
Bailey, J. R.	Pocahontas, Virginia.
Bunting, James.	Berwind, W. Va.
Boyd, Ira.	Oswald, W. Va.
Bierne, P. L.	Wevaco, W. Va.

C.

Campbell, F. H.	Wickham, W. Va.
Christopher, Geo.	Coketon, W. Va.
Cook, Jno. F.	Austen, W. Va.
Curry, J. H.	Holden, W. Va.
Cunningham, R. A.	Eventon, W. Va.
Coburn, Milton.	Viropa, W. Va.
Connor, Howard I.	Lewis, W. Va.
Carley, Wade.	Harding, W. Va.
Cline, Milton.	Davy, W. Va.
Cherry, John.	Viropa, W. Va.
Clark, R. J.	MacAlpin, W. Va.
Cassell, G. C.	Coalwood, W. Va.
Cullop, C. S.	Anawalt, W. Va.
Clement, J. G.	Laing, W. Va.
Carman, Alexander C.	Oswald, W. Va.
Clark, J. P.	McComas, W. Va.
Colvard, W. S.	Ashland, W. Va.
Cundiff, Geo.	Wyndal, W. Va.
Cunningham, Thos.	Cannelton, W. Va.
Clendennin, H. H.	Nabob, W. Va.
Coiner, Wm.	Acme, W. Va.
Cash, Chap.	Acme, W. Va.
Clark, Edward.	East Bank, W. Va.
Cadwallender, Robt.	Acme, W. Va.
Cawley, R. M.	Black Betsey, W. Va.

D.

Dawson, J. L.	Mohawk, W. Va.
Dunn, John.	Mt. Carbon, W. Va.
Dickinson, Jno.	Albert, W. Va.
Drainer, Wm. M.	Flemington, W. Va.
Dye, Elbert.	Gary, W. Va.
Daniel, Jno. O.	Claremont, W. Va.
Davis, W. E.	Barren Creek, W. Va.
Dale, Walter.	Olcott, W. Va.
Dewitt, A. W.	Heatherman, W. Va.

NAME.	ADDRESS.
Darby, Mory	Kayford, W. Va.
Davis, Harry H.	Obley, W. Va.
Bower, John	Stone Cliff, W. Va.

E.

Ewing, Earl	Hartford, W. Va.
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F.

Fleming, T. A.	Schell, W. Va.
Forbes, James	Wellsburg, W. Va.
Filbin, Jno.	Handley, W. Va.
Ford, N. A.	Coalton, W. Va.
Franklin, D. W.	Marytown, W. Va.
Fisher, H. H.	Premier, W. Va.
Fenimore, J. C.	Big Creek, W. Va.

G.

Gaultney, Thos. W.	Maybeury, W. Va.
Gilchrist, W. A.	Laing, W. Va.
Gibson, Robt. W.	Tyrconnell, W. Va.
Gray, O. A.	Dola, W. Va.
Graham, S. C. Jr.	Gary, W. Va.
Gilmore, Jenkins J.	Mohawk, W. Va.
Grant, P. A.	Twin Branch, W. Va.
Gonia, H. W.	Premier, W. Va.
Gibson, A. J.	Leckie, W. Va.
Gebraski, Larry	Pageton, W. Va.
Geyer, P. C.	Dorothy, W. Va.

H.

Hutchinson, R. S.	Switchback, W. Va.
Haire, A. C.	Worth, W. Va.
Hufford, J. E.	Lex, W. Va.
Hubbard, H. L.	Hallsville, W. Va.
Hostetter, Mike	Gary, W. Va.
Harrison, Wm.	Thayer, W. Va.
Hurt, Wm.	Mabscott, W. Va.
Hudson, J. S.	Raleigh, W. Va.
Hornsby, Wm.	Wright, W. Va.
Harshbarger, Grant	Beryl, W. Va.
Henderson, L. E.	Chiefton, W. Va.
Holliday, Geo. W.	Stuebenville, Ohio.
Harvey, S. S.	Upper Potomac, W. Va.
Haley, Marsh	Farnum, W. Va.
Hendrick, Geo.	Farnum, W. Va.
Hearshman, H. D.	Minden, W. Va.
Harmon, J. M.	Elbert, W. Va.
Haley, Timothy W.	Matewan, W. Va.

NAME.	ADDRESS.
Hackworth, J. V.	Worth, W. Va.
Hall, Palmer L.	Algoma, W. Va.
Hall, M. D.	Algoma, W. Va.
Heatherman, W. T.	Mohawk, W. Va.
Hopkins, W. J.	Mohawk, W. Va.
Heretta, Rudy	Gary, W. Va.
Hollaway, J. H.	McDowell, W. Va.
Huffman, Frank	Big Sandy, W. Va.
Hancock, J. W.	Winding Gulf, W. Va.
Hudnall, Geo.	Mucklow, W. Va.

J.

Johnson, J. E.	Wright, W. Va.
Johnson, V. A.	Branchland, W. Va.
Jennings, W. P.	Clarksburg, W. Va.
Johnson, J. D.	Big Sandy, W. Va.

K.

King, John	Roderfield, W. Va.
Knight, H. B.	Dodson, W. Va.
Kittle, M. B.	Hartridge, W. Va.
Kelley, A. B.	Boylen, W. Va.
Kirkpatrick, W. H.	Matewan, W. Va.
Kenney, D. E.	Ashland, W. Va.
Kirby, J. D.	Davy, W. Va.
Kingan, A. B.	Goodwill, W. Va.
Knight, Robert F.	Hartford, W. Va.
Klanger, Chas. J.	Glen White, W. Va.
Kennedy, John	Glen White, W. Va.
Kilburn, George Wm.	Putney, W. Va.
Kennedy, Thos.	Shrewsbury, W. Va.
Kirby, W. H.	Decota, W. Va.
Kirk, P. H.	Wake Forest, W. Va.

L.

Lake, James A.	Thomas, W. Va.
Lang, James	Red Rock, W. Va.
Lester, J. W.	Gary, W. Va.
Liddle, R. W.	Davy, W. Va.
Lewis, E. C.	Ashland, W. Va.
Loyd, Okey	East Lynn, W. Va.
Lilly, Wash	Hoteoal, W. Va.
Leftwich, Chas. W.	Putney, W. Va.
Larabee, C. R.	Sharon, W. Va.

M.

Macfarlane, Malcolm	Barnum, W. Va.
Montgomery, Geo. W.	Bower, W. Va.
Miller, J. L.	Middleton, W. Va.

NAME.	ADDRESS.
Miller, Charlie	Holden, W. Va.
Miller, Jerry H.	Marting, W. Va.
Muer, R. L.	Wevaco, W. Va.
Miller, J. S.	Ronda, W. Va.
Montgomery, Chas. E.	Burnwell, W. Va.
Moore, W. E.	Cliff Top, W. Va.
McAlister, J. T.	Hernshaw, W. Va.
Morris, L. C.	Shinnston, W. Va.
McGinnis, W. M.	Independence, W. Va.
Manning, Brice E.	Lumberport, W. Va.
Mitchell, A. P.	Gary, W. Va.
Masley, W. D.	Gary, W. Va.
McDonald, R. L.	Big Four, W. Va.
McBrayer, James	Hemphill, W. Va.
Morgan, M. M.	Thorpe, W. Va.
Marshall, W. L.	Worth, W. Va.
McBrayer, J. W.	Middlesboro, Kentucky.
Melvin, A. P.	Twin Branch, W. Va.
Maynard, T. D.	War Eagle, W. Va.
Malloy, J. J.	Clarksburg, W. Va.
Meadows, Hoge	Newlyn, W. Va.
Meadows, Owen	Carbon, W. Va.
Magruder, Wm.	Wheeling, W. Va.
Moran, L. D.	Wyndal, W. Va.
Maynor, Cleve	Herberton, W. Va.
McDaniel, W. L.	Berry, W. Va.

N.

Nunn, W. S.	Hiawatha, W. Va.
Nichols, Geo.	Grant Town, W. Va.

O.

Ort, Chas. C.	Simpson, W. Va.
Oley, W. A.	Ashland, W. Va.

P.

Powell, C. D.	Meadowbrook, W. Va.
Pack, E. E.	Eskdale, W. Va.
Price, Frank L.	Hernshaw, W. Va.
Pauley, E. P.	Acme, W. Va.
Patterson, Hugh L.	Carbon, W. Va.
Pugh, T. L.	Leewood, W. Va.
Powers, J. H.	Decota, W. Va.

Q.

Quesenberry, W. L.	Keystone, W. Va.
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R.

NAME.	ADDRESS.
Ring, G. M.	Premier, W. Va.
Ritter, J. H.	Arden, W. Va.
Richards, Floyd S.	Logan, W. Va.
Randolph, Ward	Wilsonburg, W. Va.
Rodeheaver, Geo. T.	Catawba, W. Va.
Ricer, Jno.	Monongah, W. Va.
Rose, Blair	Elbert, W. Va.
Ramey, F. L.	MacDonald, W. Va.
Riley, Earl W.	Layland, W. Va.
Reach, Lew	Monarch, W. Va.
Rose, P. L.	Kayford, W. Va.

S.

Snead, W. H.	Monarch, W. Va.
Shomo, C. W.	Junior, W. Va.
Shuttelworth, W. E.	Shinnston, W. Va.
Summers, D. M.	Gypsy, W. Va.
Stannard, Geo. E.	Tunnelton, W. Va.
Summers, J. L.	Gypsy, W. Va.
Smith, David O.	Tyreconnell, W. Va.
Swiger, U. C.	Dola, W. Va.
Swiger, J. C.	Dola, W. Va.
Smith, James G.	Myersdale, Pa.
Straight, O. C.	Clarksburg, W. Va.
Smith, H. G.	Tyreconnell, W. Va.
Strickler, Warfield	English, W. Va.
Strickler, J. W.	English, W. Va.
South, R. H.	Eckman, W. Va.
Starkey, R. O.	Gary, W. Va.
Sharky, Nick	Gary, W. Va.
Smith, R. B.	Switchback, W. Va.
Sizeman, J. T.	Thorpe, W. Va.
Shaw, W. F.	Coalwood, W. Va.
Spicer, W. T.	Welch, W. Va.
Swiger, Chas. R.	Lumberport, W. Va.
Smith, Geo. E.	Ronda, W. Va.
Slack, C. T.	Dry Branch, W. Va.
Stephens, G. M.	Moundsville, W. Va.
Scholl, L. E.	Man, W. Va.
Stull, D. H.	Fayetteville, W. Va.
Short, F. W.	Acme, W. Va.
Scherer, F. E.	Acme, W. Va.
Stephens, J. W.	Shrewsbury, W. Va.
Snodgrass, Joe	Holden, W. Va.

T.

NAME	ADDRESS
Taylor, J. H.	Welch, W. Va.
Triplett, Joseph	Yukon, W. Va.
Thomas, Clarence	Watson, W. Va.
Thompson, Geo. E.	Holden, W. Va.
Thompson, A. B.	Gauley Bridge, W. Va.
Temple, C. B.	Hiorra, W. Va.
Tibbets, F. H.	Beryl, W. Va.
Tulley, J. M.	Gary, W. Va.
Taylor, J. F.	Ashland, W. Va.
Tackett, Geo.	Eventon, W. Va.
Taylor, Robt.	Charleston, W. Va.
Taylor, Raleigh C.	Austed, W. Va.
Titlow, B. F.	Colecord, W. Va.

V.

Vaughn, Ed.	Hiawatha, W. Va.
Vance, J. L.	Ashland, W. Va.
Vernon, J. E.	Glen Alum, W. Va.

W.

Welch, Geo. W.	Merrimac, W. Va.
Walters, Trig.	Maybrey, W. Va.
White, William	McDowell, W. Va.
Weber, Richard	Grafton, W. Va.
Whitman, W. G.	Holden, W. Va.
Warden, C. A.	Kingston, W. Va.
Woolf, Wm. B.	Flemington, W. Va.
White, W. M.	Yukon, W. Va.
Whitworth, W. H.	Gary, W. Va.
Ward, S. E.	Premier, W. Va.
Warwick, W. W.	Slab Fork, W. Va.
Watson, S. L.	Lansing, W. Va.
Weis, Fred	Mason, W. Va.
Wilson, Wm. E.	Page, W. Va.
Whittaker, C. E.	Clothier, W. Va.
Workman, Chas. A.	Vanetta, W. Va.
Waters, Thomas	Peytona, W. Va.
Wriston, B. F.	Hill Top, W. Va.
Waddle, G. R.	Keeferton, W. Va.

Y.

Young, Jno.	Cedar Grove, W. Va.
Yerkey, C. E.	Lewis, W. Va.
Yates, W. M.	Elkhorn, W. Va.

Z.

Zurik, Mike	Carey, W. Va.
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FIRE BOSS CERTIFICATES.

B.

NAME	ADDRESS
Bolton, Wm.	Cranberry, W. Va.
Brown, M. A.	Algoma, W. Va.
Bare, Wm.	Kimball, W. Va.
Bradach, John	Henry, W. Va.

C.

Chadwick, J. D. M.	Steubenville, Ohio.
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H.

Haynes, James	Jed, W. Va.
Henry, L. R.	Gypsy, W. Va.

I.

Isherwood, Edward	Cane Brake, W. Va.
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J.

Johnson, W. W.	Ansted, W. Va.
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L.

Laird, Thos.	Shinnston, W. Va.
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M.

Mannus, O. A.	Keystone, W. Va.
Murphy, R. B.	Olmsted, W. Va.

N.

Niddifer, R. C.	Jed, W. Va.
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P.

Parish, J. A.	Farmington, W. Va.
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S.

Smith, Harry	Ansted, W. Va.
Stokes, M. E.	Red Star, W. Va.

T.

Tomiko, Albert	Henry, W. Va.
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W.

Woodward, H. J.	Jed, W. Va.
Wakefield, Benjamin	Farmington, W. Va.

Y.

Young, Wm.	Steubenville, Ohio.
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*RATES ON COAL AND COKE FROM VARIOUS DISTRICTS IN WEST
VIRGINIA ON THE WESTERN MARYLAND RAILWAY TO
THE PRINCIPAL MARKETING POINTS AS OF
OCTOBER 31ST, 1912.*

TO	Coal. Cumberland Piedmont District	Coal. West Virginia District	Coke West Virginia District
		GROSS TON	
Boston, Mass.....	\$2.60	\$2.85	\$3.25 Net T
Pt. Reading.....	(1) 1.55	(1) 1.80	
New York, N. Y.....	1.95	2.20	
Jersey City, N. J.....	1.85	2.10	2.15 Net T
Pt. Richmond.....	(2) 1.35	(2) 1.60	
Pt. Richmond.....	(3*) 1.25	(3) 1.50	
Pt. Richmond.....			(4) 1.65 G. T
Pt. Richmond.....	1.60	1.85	
Philadelphia.....	1.60	1.85	1.95 Net T
Baltimore, Md.....	1.60	1.85	1.95 Net T
Pt. Covington.....	(5) 1.35	(5) 1.60	
Pt. Covington.....	(6) 1.15	(6) 1.43	
Pt. Covington.....			(4) 1.65 G. T
Pt. Covington.....	1.60	1.85	
		NET TON	
Sandusky, O.....	\$1.45	\$1.25	\$2.25 Net
Sandusky, Ohio. (For reshipment by Lakes).....	(a) 1.15 (b) 1.25	(a) .96 $\frac{3}{4}$ (b) 1.06 $\frac{3}{4}$	
Chicago, Ill.....	2.05	1.90	2.65 Net T
St. Louis, Mo.....	2.50	2.35	2.80 Net T

NOTE—(1) When dumped over coal piers and delivered to vessels.

(2) For points inside Capes.

(3) For points outside Capes.

(4) When for export.

(5) For points in Baltimore Harbor in Chesapeake Bay, "inside the Chesapeake Capes."

(6) For points outside Chesapeake Capes.

(a) Applies only on cargo coal F. O. B. cars on Dock for reshipment by Lake. The charge for transferring coal from cars to vessel is 5 cents ton of 2000 lbs. and will be in addition to above rates.

(b) Applies on coal F. O. B. cars on Dock to be used for fuel for Vessels. The charge for transferring coal from cars to bunkers of vessels are as follows, and will be in addition to the above rates:

Vessels taking coal cargoes..... 11c per 2000 lbs.

Vessels not taking coal cargoes..... 19c per 2000 lbs.

Vessels not taking cargoes (when coal is wheeled aboard)..... 35c per 2000 lbs.

**RATES ON COAL AND COKE FROM THE VARIOUS DISTRICTS IN
WEST VIRGINIA ON THE C. & O. RY. TO THE PRINCIPAL
MARKETING POINTS AS OF OCTOBER 31ST, 1912.**

TO		Commercial Coal, Lake or Tidewater Coal.		Coke from various Dis- tricts to the same points	
		Kanawha District	New River District	Kanawha District	New River District
Detroit, Mich.	Com.	\$ 1.40	\$ 1.50	\$ 2.10	\$ 2.20
Toledo, O.	Lake	.97	1.12		
Toledo, O.	Com.	1.25	1.45	1.95	1.95
Cincinnati, O.	Com.	1.60	1.10	1.70	1.70
Chicago, Ill.	Com.	1.90	2.05	2.50	2.50
Indianapolis, Ind.	Com.	1.55	1.65	2.30	2.30
St. Paul, Minn.	Com.	No Through Rates.		No Through Rates.	
Milwaukee, Wis. (Proper)	Com.	2.50	2.65	2.70	2.70
Hamilton, Ohio	Com.	1.15	1.25	1.95	1.95
Springfield, O.	Com.	1.25	1.45	1.95	1.95
Dayton, O.	Com.	1.25	1.35	1.95	1.95
Lima, O.	Com.	1.25	1.45	1.95	1.95
Newport News, Va. (For beyond Capes)		1.50	1.40	1.75	1.95
Newport News, Va. (proper)	Com.	1.60	1.50	2.00	2.00
Richmond, Va.	Com.	1.60	1.50	2.00	2.00
Lynchburg, Va.	Com.	1.60	1.50	*1.75	*1.57
Manchester, Va.	Com.	1.60	1.50	2.00	2.00
Winston-Salem, N. C.	Com.	2.20	2.10	2.40	2.30
Empora, Va.	Com.	2.40	2.30	2.30	2.30
Mineral, Va.	Com.	1.60	1.50	2.00	2.00
Jacksonville, Fla.	Com.	2.85	2.75	3.35	3.25
Savannah, Ga.	Com.	2.50	2.40	2.75	2.65
Covington, Va.				.75	.65
Fordwick, Va.				1.50	1.50
Fordwick, Va.	Com.				
Pea, Nut & Slack		.75	.65		
Mine Run		.90	.80		
Lump & Egg		1.50	.95		
Covington, Va.	Com.				
Pea, Nut & Slack		.60	.50		
Mine Run		.85	.75		
Lump & Egg		1.00	.90		

* Rate Crushed Coke from New River and Kanawha Districts 92.00.

NOTE—All of the above rates are based on NET tons except the Newport News, Va., "For Beyond Capes", which is GROSS tons.

**RATES ON COAL AND COKE FROM MINES LOCATED ON THE K. &
M. RY. IN THE WEST VIRGINIA TO THE PRINCIPAL
MARKETING POINTS.**

TO	COAL	COKE
Chicago, Ill.	\$1.90	\$2.50
Columbus, O.	.90	1.20
Detroit, Mich.	1.40	2.10
Ft. Wayne, Ind.	1.60	2.30
Grand Rapids, Mich.	1.90	2.50
Holland, Mich.	1.90	2.50
Indianapolis, Ind.	1.55	2.30
Kalamazoo, Mich.	1.85	2.50
La Fayette, Ind.	1.75	2.50
Milwaukee, (Proper) Wis.	2.50	2.70
Milwaukee, (Beyond) Wis.	1.90	
Toledo, (Proper) O.	1.25	1.65
Toledo, (for Lake Shipment) O.	1.02	
Toledo, (Fuel Coal) O.	1.25	

*RATE ON COAL FROM VARIOUS DISTRICTS IN WEST VIRGINIA ON
THE N. & W. R. R. TO THE PRINCIPAL MARKETING
POINTS AS OF OCTOBER 31ST, 1912.*

TO	Poca and Tug River Districts.	Clinch Valley Districts.	Thacker District.	Kenova District.
Norfolk, Va.....	\$ \$1.50	\$1.50	\$ 1.60	\$1.70
Greenboro, N. C.....	2.30	2.30	2.40	2.50
Charlotte, N. C.....	2.35	2.35	2.45	2.55
Salisbury, N. C.....	2.35	2.35	2.45	2.55
Concord, N. C.....	2.35	2.35	2.45	2.55
Raleigh, N. C.....	2.30	2.30	2.40	2.50
Durham, N. C.....	2.20	2.20	2.30	2.40
Winston-Salem, N. C.....	2.10	2.10	2.20	2.30
Graham, N. C.....	2.30	2.30	2.40	2.50
Burlington, N. C.....	2.30	2.30	2.40	2.50
Haw River, N. C.....	2.30	2.30	2.40	2.50
Wilmington, N. C.....	2.05	2.05	2.15	2.25
Fayetteville, N. C.....	2.40	2.40	2.50	2.60
Tarboro, N. C.....	2.40	2.40	2.50	2.60
Washington, N. C.....	2.05	2.05	2.15	2.25
Columbia, S. C.....	2.35	2.35	2.45	2.55
Charleston, S. C.....	2.15	2.15	2.25	2.35
Chicago, Ill.....	2.05	2.30	1.90	1.90
Joliet, Ill.....	2.05	2.30	1.90	1.90
Cincinnati, O.....	1.10	1.35	1.00	1.00
Detroit, Mich.....	1.60	1.85	1.40	1.40
Grand Rapids, Mich.....	2.10	2.35	1.90	1.90
Kalamazoo, Mich.....	2.05	2.30	1.85	1.85
South Bend, Ind.....	1.95	2.20	1.80	1.80
Sandusky Docks, O.....	1.12	1.37	.97	.97
(For Lake Shipment.) All per ton of 2,000 lbs..				On Docks.
Lambert Point, Va.....	1.40	1.40	1.50	1.60
(For Beyond Capes.) Per ton of 2,240 lbs.				On Dock.

*RATES ON COKE FROM VARIOUS DISTRICTS IN WEST VIRGINIA
ON THE N. & W. RY. TO THE PRINCIPAL MARKETING
POINTS.*

TO	Poca and Tug River Districts.	Clinch Valley Districts.	
Chicago, Ill.....	\$ 2.50	\$ 2.65	All Coke per ton of 2,000 lbs.
Joliet, Ill.....	2.50	2.65	
S. S. Marie, Ont.....	3.35	3.50	
Milwaukee, Wis.....	2.70	2.85	
Ironton, O.....	1.00	1.15	
Hanging Rock, O.....	1.00	1.15	
Columbus, O.....	1.55	1.70	
Jackson, O.....	1.25	1.40	
Wellston, O.....	1.25	1.40	

*RATES ON COAL FROM VARIOUS DISTRICTS IN WEST VIRGINIA
ON THE C. & C. RY. TO THE PRINCIPAL MARKETING
POINTS AS OF OCTOBER 31ST, 1912.*

TO WHAT POINT <small>Loc.</small>	Roaring Creek District.	Upshur District.	Braxton District.	Elk River District.
Chicago, Ill.....	\$1.90	\$1.90	\$1.90	\$1.90
Indianapolis, Ind.....	1.55	1.55	1.55	1.55
Columbus, O.....	.90	.90	.90	.90
Toledo, O.....	1.25	1.25	1.25	1.25
Detroit, Mich.....	1.40	1.40	1.40	1.40
Milwaukee, Wis.....	2.50	2.50	2.50	2.50
La Fayette, Ind.....	1.75	1.75	1.75	1.40
Kokomo, Ind.....	1.55	1.55	1.55	1.55
Gas City, Ind.....			1.55	1.55
Greensburg, Ind.....	1.55	1.55	1.55	1.55
Adrian, Mich.....	1.40	1.40	1.40	1.40
St. Louis, Mo.....	2.35	2.35	2.35	2.35
Cleveland, O.....	1.15	1.15	1.15	1.75
Dayton, O.....	1.15	1.25	1.25	1.25
Portland, Ind.....	1.55	1.55	1.55	1.55
Jackson, Mich.....	1.60	1.60	1.60	1.60
Pontiac, Mich.....	1.80	1.80	1.80	1.80
Marion, Ind.....	1.55	1.55	1.55	1.55
Saginaw, Mich.....	1.90	1.90	1.90	1.90
Grand Rapids, Mich.....	1.90	1.90	1.90	1.90
Bluffton, O.....	1.25	1.25	1.25	1.25
Wabash, Ind.....	1.65	1.65	1.65	1.65
Urbana, O.....	1.25	1.25	1.25	1.25
Ft. Wayne, Ind.....	1.60	1.60	1.60	1.60
Ann Arbor, Mich.....	1.60	1.60	1.60	1.60
Richmond, Ind.....	1.45	1.45	1.45	1.45
Lima, Ohio.....	1.25	1.25	1.25	1.25
Marion, O.....	1.25	1.25	1.25	1.25
Springfield, Ohio.....	1.25	1.25	1.25	1.25
New York, N. Y.....	2.20	2.20	2.20	*2.20
Philadelphia, Pa.....	1.85	1.85	1.85	*1.85
Baltimore, Md.....	1.85	1.85	1.85	*1.85
Reading, Pa.....	1.75	1.75	1.75	*1.75
Harrisburg, Pa.....	1.75	1.55	1.55	*1.55

* The rates to these points will only be applicable from the Elk District to stations East of Middle Creek

RATES ON COKE FROM THE VARIOUS DISTRICTS IN WEST VIRGINIA ON THE C. & C. RY. TO THE PRINCIPAL MARKETING POINTS AS OF OCTOBER 31ST, 1912.

TO WHAT POINT	Roaring Creek District.	Upshur District.
Chicago, Ill.	\$2.50	\$2.50
Indianapolis, Ind.	2.30	2.30
Columbus, O.	1.65	1.65
Toledo, Ohio.	1.95	1.95
Detroit, Mich.	2.10	2.10
Millwaukee, Wis.	2.70	2.70
La Fayette, Ind.	2.50	2.50
Kokomo, Ind.	2.30	2.30
Granite City, Ill.	2.80	2.80
Adrain, Mich.	2.10	2.10
St. Louis, Mo.	2.80	2.80
Dayton, O.	1.95	1.95
Jackson, Mich.	2.30	2.30
Jackson, O.	1.20	1.20
Wellston, O.	1.20	1.30
Saginaw, Mich.	2.50	2.50
Grand Rapids, Mich.	2.50	2.50
Bellefontaine, O.	1.95	1.95
Washington Court House, O.	1.95	1.95
Union Furnace, O.	1.55	1.55
Ft. Wayne, Ind.	2.30	2.30
Addyston, O.	1.70	1.70
Linna, O.	1.95	1.95
Marion, O.	1.95	1.95
Springfield, O.	1.95	1.95
New Castle, Ind.	2.30	2.30
Peoria, Ill.	2.65	2.65
Benton Harbor, Mich.	2.50	2.50
Hamilton, Ohio.	1.95	1.95
Hammond, Ind.	2.50	2.50

*RATES ON COAL AND COKE FROM NEW RIVER DISTRICT IN WEST
VIRGINIA ON THE VIRGINIAN RAILWAY TO PRINCIPAL
MARKETING POINTS AS TO OCTOBER 31ST, 1912.*

(Per ton of 2,000 pounds except as noted below.)

TO		New River District	
		Coal.	Coke
Sewells Point, Va.....	For export (For beyond (the capes).....	\$ 1.40 (See Note) \$ 1.40 (See Note)	\$ 1.65 (See Note) 2.00
Norfolk, Va.....		1.50	2.00
Richmond, Va.....		1.50	2.00
South Richmond (Manchester) Va.....		1.50	2.00
Lynchburg, Va.....		1.50	1.50
Roanake, Va.....		1.30	1.30
Emporia, Va.....		2.30	2.30
Winston-Salem, N. C.....		2.10	2.10
Greensboro, N. C.....		2.30	2.30
Charlotte, N. C.....		2.35	2.35
Salisbury, N. C.....		2.35	2.35
Concord, N. C.....		2.35	2.35
Raleigh, N. C.....		2.30	2.30
Durham, N. C.....		2.20	2.20
Graham, N. C.....		2.30	2.30
Burlington, N. C.....		2.30	2.30
Haw River, N. C.....		2.30	2.30
Wilmington, N. C.....		2.05	2.45
Fayetteville, N. C.....		2.40	2.40
Tarboro, N. C.....		2.40	2.40
Washington, N. C.....		2.05	2.40
Columbia, N. C.....		2.35	2.35
Charleston, S. C.....		2.15	2.50
Savanah, Ga.....		2.40	2.65
Jacksonville, Fla.....		2.75	3.25

NOTE—Rates to Sewells Point, Va., on coal for export or for beyond the Capes, and Coke for export, applies per ton of 2,240 pounds.

**RATES ON COAL FROM VARIOUS DISTRICTS IN WEST VIRGINIA
ON THE B. & O. R. R. AND LATERAL LINES TO THE PRIN-
CIPAL MARKETING POINTS.**

TO	FROM	DELIVERY	Austen, Elk Garden, Kingwood, Upper Potomac.		Bellington, Clarksburg, Fairmont, Junior, Monongah, Opekiska, Roaring, Creek Short Line, Tuscar.		Moundsville.		Ohio River		Gauley.	
			Gross Ton		Gross Ton		Gross Ton		Gross Ton		Gross Ton	
Baltimore, Md.	Local		1.40		\$ 1.85		\$ 1.85		\$ 2.00			
	For reshipment inside Capes		1.35		1.60		1.60		1.75			
	For reshipment outside											
Philadelphia, Pa.	Capes		1.18		1.43		1.43		1.58			
	Local		1.60		1.85		1.85		2.00			
	For reshipment inside Capes		1.35		1.60		1.60		1.75			
St. George, S. I.	For reshipment outside											
	Capes		1.25		1.50		1.50		1.65			
	For reshipment		1.55		1.80		1.80					
Wilmington, Del.	Local		1.60		1.85		1.85		2.00			
			Net Ton		Net Ton		Net Ton		Net Ton		Net Ton	
Columbus, O.	Local		1.15		.90		.90		.90		1.15	
Sandusky, Ohio	Local		1.45		1.25		1.25		1.25		1.45	
Cleveland, O.	Local		1.35		1.15		1.00		1.15		1.36	
Lorain, O.	Local		1.35		1.15		1.00		1.15		1.35	
Barberton, O.	Local		1.35		1.05		.95		1.05		1.35	
Chicago, Ill.	Local		2.05		1.90		1.90		1.90		2.05	
Syracuse, Ind.	Local		1.80		1.60		1.60		1.60		1.80	
Cincinnati, O.	Local		1.10		1.00		1.00		1.00		1.10	
Toledo, O.	Local		1.45		1.25		1.25		1.25		1.45	
Detroit, Mich.	Local		1.60		1.40		1.40		1.40		1.60	
Grand Rapids, Mich.	Local		2.10		1.90		1.90		1.90		2.10	

**RATES ON COKE FROM VARIOUS DISTRICTS IN WEST VIRGINIA ON
THE B. & O. R. R. AND LATERAL LINES TO THE PRIN-
CIPAL MARKETING POINTS.**

TO	FROM	DELIVERY	Bellington, Clarksburg, Coal & Coke No. 10, King Kingwood, Monongah, Moundsville, Opekiska, Short Line Western Maryland R. R.		Gauley	
			Rate per 2000 lbs.		Rate per 2000 lbs.	
Baltimore, Md.	Local		\$ 1.95		\$ 2.15	
Philadelphia, Pa.	Local		1.95		2.15	
St. George, S. I.	For reshipment		2.15		2.35	
Reading, Pa.	Local		1.75		1.95	
Catasauqua, Pa.	Local		1.80		2.00	
Swedeland, Pa.	Local		1.80		2.00	
Harrisburg, Pa.	Local		1.50		1.70	
Columbus, O.	Local		1.65		1.85	
Cleveland, O.	Local		1.65		1.85	
Youngstown, O.	Local		1.35		1.55	
Akron, O.	Local		1.55		1.75	
Cincinnati, O.	Local		1.70		1.90	
Chicago, Ill.	Local		2.50		2.70	
Toledo, O.	Local		1.95		2.15	
Detroit, Mich.	Local		2.10		2.30	

OIL TESTS FOR THE YEAR ENDING JUNE 30TH, 1912

(The Smoke Test shows the percentage in excess of pure Cotton Seed Oil which is 100 per cent.)

Date of Test	Name of Sampler or Manufacturer.	Color.	Sediment.
7-1-11	L. Sonnenborn Sons, Inc.	Light Amber	None
7-18-11	The Burton & Landstreet Company	Golden Amber	None
8-3-11	Standard Oil Company	Dark Brown Amber	None
8-5-11	Standard Oil Company	Dark Brown	None
8-5-11	Burton & Landstreet Supply Co.	Light Amber	None
8-11-11	Columbus Iron & Steel Company	Very Pale Amber	None
8-16-11	Standard Oil Company	Dark Golden Amber	None
8-26-11	Standard Oil Company	Dark Golden Amber	None
9-2-11	Standard Oil Company	Dark Amber	None
9-2-11	Standard Oil Company	Dark Amber	None
9-2-11	Standard Oil Company	Dark Amber	None
9-2-11	Standard Oil Company	Dark Amber	None
9-2-11	Muelow Supply Company	Pale Amber	Black specks
9-2-11	Muelow Supply Company	Very Light Amber	None
9-16-11	Standard Oil Company	Bluish Amber	None
9-16-11	Standard Oil Company	Brown Amber	None
10-7-11	Nuttall Coal Company	Light Amber	None
10-7-11	Burton & Landstreet Company	Brown Amber	Cloudy
10-14-11	Standard Oil Company	Pale Amber	None
10-21-11	Burton & Landstreet Company	Brown Amber	None
10-11-11	Standard Oil Company	Very Pale Amber	None
10-11-11	Standard Oil Company	Pale Amber	None
11-11-11	Standard Oil Company	Very Pale Amber	None
11-11-11	Standard Oil Company	Water Color	None
12-30-11	Burton & Landstreet Company	Dark Amber	None
1-13-12	Coal Valley Mining Company	Light Amber	None
1-30-12	Burton & Landstreet Company	Dark Golden Amber	None
2-3-12	Ethel Coal Company	Pale Amber	None
2-18-12	Branchland Coal Company	Light Amber	None
2-18-12	William C. Robinson & Sons Co.		
2-18-12	Standard Oil Company	Miners Sunshine	None
2-21-12	H. T. Wilson Coal Company	Dark Amber	None
2-24-12	F. N. Coal & Oil Company	Light Amber	None
2-24-12	Rex Coal & Coke Company	Light Amber	None
2-24-12	Logan Coal Company	Dark Amber	None
2-24-12	Cora Coal & Coke Company	Yellow Clay Color	None
2-24-12	Guyandotte Coal Company	Bluish Amber	None
2-24-12	Maryland Coal Company	Bluish Amber	None
3-15-12	William C. Robinson & Sons Co.	Golden Amber	None
3-16-12	Burton & Landstreet Company	Very Pale Amber	None
4-29-12	Great Eastern Oil & Paint Co.	Amber	None
4-29-12	W. C. Robinson & Sons Company	Dark Amber	None
4-29-12	Standard Oil Company	Light Amber	None
4-29-12	Standard Oil Company	Bluish Amber	None
4-30-12	Burton & Landstreet Company	Brown Amber	None

OIL TESTS FOR THE YEAR ENDING JUNE 30TH, 1912—Continued.

The *Saunders Test* shows the percentage in excess of pure Cotton Seed Oil which is 100 per cent.

Appearance	Taste and Smell	Hydro- metric Reading	Temper- ature	Smoke Test	Porter-Making Test
None	Like Cotton Seed Oil		78	70	Charles Connor
Small White Specks	Like Lard Oil	34	7	250°	Charles Connor
None	Machine Oil	34	84	200°	James Martin
None	Lard Oil	22	8	100°	James Connor
Some Specks	Lard Oil	26	86	100.00	James Martin
Light Colored Specks	Lard Oil			175°	James Martin
None	Like Cotton Seed Oil	33	78	150°	James Martin
None	Cotton Seed Oil	30	78	150°	James Martin
None	Lard Oil	30	78	100°	James Martin
None	Lard Oil	27	78	10°	James Martin
None	Lard Oil	34	78	200°	James Martin
None	Lard Oil	29	78	50°	James Martin
Cloudy	Fish Oil	26	7	300°	James Martin
None	Petroleum	29	78	200°	James Martin
None	Cotton Seed Oil	28	74	125°	James Martin
None	Petroleum	33	74	125°	James Martin
None	Lard Oil	33	69	150°	James Martin
None	Petroleum	25	69	25°	James Martin
None	Olive Oil	26	65	125°	James Martin
None	Olive Oil	22	64	200°	James Martin
None	Fish Oil	36	72	25°	James Martin
None	Lard Oil	34	72	25°	James Martin
None	Lard Oil	33	72	25°	James Martin
None	Lard Oil	40	72	100°	James Martin
None	Kerosene	25	56	125°	James Martin
None	Lard Oil		74	125°	James Martin
None	Fish Oil	26	60	50°	James Martin
None	Lard Oil	26	64	200°	James Martin
Small White Specks	Cotton Seed Oil	39	76	150°	James Martin
		33	76	150°	James Martin
None	Lard Oil	30 ²	74	25°	James Martin
None	Lard Oil	20 ²	74	100°	James Martin
None	Petroleum	28 ²	74	100°	James Martin
None	Cotton Seed Oil	32	74	100°	James Martin
None	Cotton Seed Oil	31	74	100°	James Martin
None	Petroleum	32	74	100°	James Martin
None	Lard Oil	30	74	100°	James Martin
None	Kerosene	28	86	150°	James Martin
None	Cotton Seed Oil	31 ²	80	200°	James Martin
None	Lard Oil	29 ²	68 ²	50°	James Martin
None	Linseed Oil	22 ²	68 ²	50°	James Martin
None	Lard Oil	29 ²	68 ²	50°	James Martin
None	Lard Oil	30 ²	68 ²	50°	James Martin
None	Petroleum	30 ²	70 ²	50°	James Martin

PRODUCTION IN WEST VIRGINIA ACCORDING TO GEOLOGICAL SERIES AND COAL BEDS.

(Tons of 2,240 lbs.)

COUNTY.	MONONGAHELA SERIES No. 15			CONEMAUGH SERIES, No. 14—(Elk River)			ALLEGHANY-KANAWHA SERIES No. 13.			
	Sewickley	Red Stone	Pittsburg	Elk Lick	Mason	Mahong No. 5	Upper Freeport Lewiston	Lower Freeport Coalburg	Upper Kittanning Winifred	Middle Kittanning Cedar Gr.
Brooke.....			544,152					135,040		
Marion.....	22,618		4,811,034							
Marshall.....			664,393							
Ohio.....			374,595							
Harrison.....			4,529,344							
Lewis.....			40,057							
Upshur.....		21,107	15,984			965	40,612			
Barbour.....		277,768	437,050				125,388			
Monongalia.....			256,776				817,187			
Preston.....			668,172			23,412	39,716			
Taylor.....							134,933			
Grant.....			195,151	74,824			281,004			
Mineral.....							705,413			
Randolph.....							481,750			
Tucker.....										
Braxton.....			203,430							
Gilmer.....			57,641							
Mason.....			137,377							
Putnam.....			506,470				23,004		158,959	
Clay.....										
Fayette.....						341,226				
Kanawha.....					16,415	918,451	236,102	1,584,004	321,217	270,325
Boone.....										
Nicholas.....								11,324		
Greenbrier.....										
Raleigh.....										
Mercer.....										
McDowell.....										
Logan.....									1,081,611	
Mingo.....								44,160	588,304	223,672
Wayne.....									48,130	
Totals.....	22,618	298,875	13,443,626	74,824	16,415	1,284,054	2,885,747	1,775,738	2,198,221	493,997
<div>Monongahela Series No. 13.</div> <div>Conemaugh Series (Elk River) No. 14.</div> <div>Allegheny-Kanawha Series No. 13.</div> <div>Portsville-New River Pocahontas Series No. 12.</div> <div>13,765,119</div> <div>1,375,293</div> <div>15,850,195</div> <div>28,291,167</div> <div>59,281,774</div>										

59,281,774

PRODUCTION IN WEST VIRGINIA ACCORDING TO GEOLOGICAL SERIES AND COAL BEDS.—Continued.

(Tons of 2,240 lbs.)

COUNTY	ALLEGHENY-KANAWHA SERIES NO. 13. Lower Kittanning				POTTSVILLE-NEW RIVER POCAMONTAS SERIES. No. 12				Total
	Campbell's Creek	Thacker Davis	No. 2. Gas	Powellton	Clarion No. 1 Gas	Sewell	Welch	Quinn mont and Beckley	
Brooke									680,192
Marion									4,853,652
Marshall									664,393
Ohio									374,595
Harrison									4,529,344
Lewis									40,057
Upshur									37,091
Barbour									756,395
Monongalia		24,614							382,164
Preston									841,801
Taylor		53,974							731,300
Grant		101,362							188,997
Mineral									655,911
Randolph						11,181			716,632
Tucker		632,982							1,114,732
Braxton									203,430
Gilmer									57,641
Mason									139,377
Putnam									506,470
Clay			2,112,811	142,118	680,304	3,988,410		1,547,189	101,863
Fayette	25,001		1,720,781		514,226				8,812,038
Kanawha					329,179				3,006,322
Boone						34,601			328,179
Nicholas									46,135
Greenbrier						1,963,608			52,358
Raleigh									2,618,168
Mercer									4,581,776
McDowell			2,161,422	53,875			1,364,228		2,783,866
Logan		1,464,552							13,768,077
Mingo									3,243,033
Wayne									2,374,563
Totals	25,001	2,580,484	5,996,014	195,993	1,523,709	5,997,800	1,364,228	4,217,715	50,281,771
									13,765,119
									1,375,293
									15,850,195
									28,291,167

Monongahela Series No. 15.
Cocaumugh Series (Elk River) No. 14.
Allegheny-Kanawha Series No. 13.
Pottsville-New River Pocamontas Series No. 12.

59,281,774

COAL PRODUCTION BY GEOLOGICAL SERIES AND COUNTIES—1912.

COUNTY.	Monongahela Series No. 15	Conemaugh Series (Elk River) No. 14	Alleghany- Kanawha Series No. 13	Pottsville New River Pocahontas Series No. 12	Total (Tons 2240 lbs.)
Brooke.....	544,152		136,040		680,192
Marion.....	4,833,652				4,833,652
Marshall.....	664,393				664,393
Ohio.....	374,595				374,595
Harrison.....	4,529,344				4,529,344
Lewis.....	40,057				40,057
Upshur.....	37,091				37,091
Barbour.....	714,818	965	40,612		756,395
Monongalia.....	250,776		125,388		382,164
Preston.....					841,801
Taylor.....	668,172	23,412	39,716		731,300
Grant.....			188,907		188,907
Mineral.....	195,151	74,824	385,966		655,941
Randolph.....			705,451	11,181	716,632
Tucker.....			1,114,732		1,114,732
Braxton.....	203,430				203,430
Gilmer.....	57,641				57,641
Mason.....	139,377				139,377
Putnam.....	506,470				506,470
Clay.....			181,963		181,963
Fayette.....		341,226	2,254,929	6,215,903	8,812,058
Kanawha.....		934,866	4,157,430	514,226	5,606,522
Boone.....				329,179	329,179
Nicholas.....			11,534	34,601	46,135
Greenbrier.....				52,358	52,358
Raleigh.....				4,581,776	4,581,776
Mercer.....				2,783,866	2,783,866
McDowell.....				13,768,077	13,768,077
Logan.....			3,213,032		3,213,032
Mingo.....			2,374,563		2,374,563
Wayne.....			48,130		48,130
Total.....	13,765,119	1,375,293	15,850,195	28,291,167	59,281,777

ALPHABETICAL INDEX OF THE DIFFERENT COAL COMPANIES IN WEST VIRGINIA.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
A.			
Austen Coal & Coke Co.	Austen	Preston	W. Va.
Atlantic Coal & Coke Co.	Tunnelton	Preston	W. Va.
Arthurdale Coal & Coke Co.	Rootsville	Preston	W. Va.
Autler Coal & Coke Co.	Elkhorton	Monongalia	W. Va.
Abrams Creek Coal & Coke Co.	Oakmont	Mineral	W. Va.
Alpha Coal Mining Company	Plymouth	Parrish	W. Va.
Anchor Coal Co.	High Coal	Boone	W. Va.
Alaska Coal & Coke Co.	Clarendon	Fayette	W. Va.
American Coal Co. of Allegheny Co.	McComas	Mercer	W. Va.
Algoma Coal & Coke Co.	Algoma	McDowell	W. Va.
Arlington Coal & Coke Co.	Arlington	McDowell	W. Va.
Ashland Coal & Coke Co.	Ashland	McDowell	W. Va.
Atlas-Pocahontas Coal Co.	Autler	McDowell	W. Va.
Avon Coal Co., The	Mat	McDowell	W. Va.
Aracoma Coal Co.	Logan	Logan	W. Va.
B.			
Blue Ridge Coal Co.	Charlshurg	Harrison	W. Va.
Byron Coal Co.	Charlshurg	Harrison	W. Va.
Bernard Coal Co.	Charlshurg	Harrison	W. Va.
Buckhannon River Coal Co.	Adrian	Upshur	W. Va.
Borgman Coal Co.	Tunnelton	Preston	W. Va.
Big Vein Coal Co.	Shaw	Mineral	W. Va.
Brady Coal Co.	Matine	Randolph	W. Va.
Buffalo Creek Cumberland Coal Co.	Bayard	Grant	W. Va.
Beech Bottom Coal Co.	Wellburg	Brooks	W. Va.
Ben Franklin Coal Co.	Moundsville	Marshall	W. Va.
Black Betsy Coal Mining Co.	Black Betsy	Futema	W. Va.
Beech Grove Coal Co.	Mason	Mason	W. Va.
Blue Creek Coal & Land Co.	Charleston	Kanawha	W. Va.
Boomer Coal & Coke Co.	Boomer	Fayette	W. Va.
Braxton Coal Co.	Outlip	Braxton	W. Va.
Ballinger Coal & Coke Co.	Nuttallburg	Fayette	W. Va.
Beechwood Coal & Coke Co.	Clarendon	Fayette	W. Va.
Boury Bros. Coal & Coke Co.	Boury	Fayette	W. Va.
Boury, New River Coal Co.	Elba	Fayette	W. Va.
Big Bend Coal Co.	Dimmoek	Fayette	W. Va.
Bhune Coal & Coke Co.	Lookout	Fayette	W. Va.
Brown Coal Co.	Nuttallburg	Fayette	W. Va.
Branch Coal & Coke Co.	Elverton	Fayette	W. Va.
Belmont Coal Co.	Crown Hill	Kanawha	W. Va.
Bailey Wood Coal Co.	MacAlpin	Raleigh	W. Va.
Blue Jay Lumber Co.	Blue Jay	Raleigh	W. Va.
Beckley Coal Delivery Co.	Beckley	Raleigh	W. Va.
Booth Bowen Coal & Coke Co.	Freeman	Mercer	W. Va.
Buckeye Coal & Coke Co.	Freeman	Mercer	W. Va.
Black Wolf Coal & Coke Co.	Dearing	McDowell	W. Va.
Bottom Creek Coal & Coke Co.	Vivian	McDowell	W. Va.
Buchanan Coal Co.	Yuhon	McDowell	W. Va.
Branchland Coal Co.	Bratfield	Lincoln	W. Va.
Black Hawk Colliery Co.	Big Creek	Logan	W. Va.
Buffalo Collieries Co.	Chattahoo	Mingo	W. Va.
C.			
Catawba Coal Co.	Connelsville	Marian	Pa.
Consolidation Coal Co., The	Fairmont	Marion	W. Va.
Consolidation Coal Co., The	Fairmont	Harrison	W. Va.
Consolidation Coal Co., The	Fairmont	Barbour	W. Va.
Consolidation Coal Co., The	Fairmont	Monongalia	W. Va.
Connellsville Basin Coke Co.	Richard	Monongalia	W. Va.
Century Coal Co.	Century	Barbour	W. Va.
Corona Coal & Coke Co.	Clarksburg	Harrison	W. Va.
Central Fairmont Coal Co.	Clarksburg	Harrison	W. Va.
Clarksburg Gas Coal Co.	McWhorter	Harrison	W. Va.
Cottage Street Coal Co.	Bayard	Grant	W. Va.
Cumberland Coal Co.	Albert	Tucker	W. Va.
Copen Creek Coal Co.	Gilmer	Braxton	W. Va.
Columbus Iron & Steel Co.	Martins	Fayette	W. Va.
Collins Colliery Co.	Glen Jean	Fayette	W. Va.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
Christian Colliery Co.	Mahan	Fayette	W. Va.
Coopers Creek Coal Co.	Big Chimney	Kanawha	W. Va.
Clay Coal Co. The	Barren Creek	Kanawha	W. Va.
Caunelton Coal Co.	Caunelton	Kanawha	W. Va.
Campbells Creek Coal Co. The	Dana	Kanawha	W. Va.
Cedar Run Collieries Co.	Blue Creek	Kanawha	W. Va.
Coalburg Colliery Co.	Ronda	Kanawha	W. Va.
Chesapeake Mining Co.	Handley	Kanawha	W. Va.
Crown Hill Kanawha Coal Co.	Crown Hill	Kanawha	W. Va.
Carbon Coal Co.	Carbon	Kanawha	W. Va.
Cabin Creek Consolidated Coal Co.	Kayford	Kanawha	W. Va.
Coalburg-Kanawha Coal Co.	Coalburg	Kanawha	W. Va.
Coal River Coal Co., The	Jeffrey	Boone	W. Va.
Clearfork Coal Co.	Jerrolds Valley	Raleigh	W. Va.
Cranberry Fuel Co.	Cranberry	Raleigh	W. Va.
City Coal Company	Beckley	Raleigh	W. Va.
Coal River Coal & Coke Co.	Clothier	Logan	W. Va.
Crown Coal & Coke Co.	Man	Logan	W. Va.
Coal Valley Mining Co.	Clothier	Logan	W. Va.
Cora Coal & Coke Co.	Cora	Logan	W. Va.
Crystal Coal & Coke Co.	Crystal	Mercer	W. Va.
Crozer Coal & Coke Co.	Elkhorn	McDowell	W. Va.
Central-Pocahontas Coal Co.	Anawalt	McDowell	W. Va.
Columbus-Pocahontas Coal Co.	Jeager	McDowell	W. Va.
Cirrus Coal & Coke Co.	Big Four	McDowell	W. Va.
Chattaroy Colliery Co.	Chattaroy	Mingo	W. Va.
Crystal Block Coal & Coke Co.	Rawl	Mingo	W. Va.

D.

Dakota Coal & Coke Co.	Fairmont	Marion	W. Va.
Daniel Coal Co.	Clarksburg	Harrison	W. Va.
Duquesne Coal Co.	Reynoldsville	Harrison	W. Va.
Davis Coal & Coke Co.	Weaver	Randolph	W. Va.
Davis Coal & Coke Co.	Henry	Grant	W. Va.
Davis Coal & Coke Co.	Elk Garden	Mineral	W. Va.
Davis Coal & Coke Co.	Weaver	Barbour	W. Va.
Davis Coal & Coke Co.	Thomas	Tucker	W. Va.
Davis Colliery Co.	Elkins	Barbour	W. Va.
Davis Colliery Co.	Coalton	Randolph	W. Va.
Davis Colliery Co.	Bower	Braxton	W. Va.
Denman Coal Co.	Emoryville	Mineral	W. Va.
Dixie Coal Works	Mason	W. Va.	
Dry Branch Coal Co.	Dry Branch	Kanawha	W. Va.
Deitz Colliery Co.	Wyndal	Fayette	W. Va.
Dun Glen Coal & Coke Co.	Thurmond	Fayette	W. Va.
Dun Loup Coal & Coke Co.	Dun Loup	Fayette	W. Va.
Dry Fork Colliery Co.	Yukon	McDowell	W. Va.
Dixon-Pocahontas Fuel Co.	Dixie-Pocahontas	McDowell	W. Va.
Dry Fork Mining & Investment Co.	War	McDowell	W. Va.
Davy-Pocahontas Coal Co.	Rodelfield	McDowell	W. Va.
Draper Coal & Coke Co.	Logan	Logan	W. Va.

E.

Elm Grove Coal Co.	Elm Grove	Ohio	W. Va.
Elkins Coal & Coke Co.	Morgantown	Monongalia	W. Va.
Elkins Coal & Coke Co.	Morgantown	Preston	W. Va.
Emory Run Coal Co., The	Blaine	Mineral	W. Va.
Elk Lick Coal Co.	Richwood	Greenbrier	W. Va.
East Grafton Coal Co.	Thornton	Taylor	W. Va.
Elk Manor Coal Co.	Dorfee	Clay	W. Va.
Elliott Splint Coal Co.	Clay	Clay	W. Va.
Elk River Coal & Lumber Co.	Clay	Clay	W. Va.
East Bank Mining Co.	East Bank	Kanawha	W. Va.
E. E. White Coal Co.	Glen White	Raleigh	W. Va.
Ephraim Creek Coal & Coke Co.	Thayer	Fayette	W. Va.
Export Coal Co.	Export	Fayette	W. Va.
Elk Ridge Coal & Coke Co.	North Fork	McDowell	W. Va.
Elkhorn Coal & Coke Co.	Maybeury	McDowell	W. Va.
Excelsior Pocahontas Coal Co.	War	McDowell	W. Va.
Empire Coal & Coke Co.	Langraff	McDowell	W. Va.
Eureka Coal & Coke Co.	Eckman	McDowell	W. Va.
Ethel Coal Co.	Ethel	Logan	W. Va.
E. R. Johnson Coal Mining Co.	Logan	Logan	W. Va.
E. L. Sternberger Coal Co.	Goodman	Mingo	W. Va.
East Lynn Coal Co.	East Lynn	Wayne	W. Va.

F.

Federal Coal & Coke Co.	Grant Town	Marion	W. Va.
Four States Coal & Coke Co.	Worthington	Marion	W. Va.
Four States Coal & Coke Co.	Dorothy	Raleigh	W. Va.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
Fayette Coal Co.	Dola	Harrison	W. Va.
Fairmont & Baltimore Coal & Coke Co.	Adamston	Harrison	W. Va.
Ft. Defiance Coal & Coke Co.	Gauley Bridge	Fayette	W. Va.
Fayette Coal & Coke Co.	Fayette	Fayette	W. Va.
Fire Creek Coal & Coke Company	Fire Creek	Fayette	W. Va.
Flanagan Coal Co.	Roderfield	McDowell	W. Va.
Flat Top Mining Co.	English	McDowell	W. Va.
Fort Branch Coal Corporation	Fort Branch	Logan	W. Va.
Ferndale Coal Co.	Rolfe	Logan	W. Va.

G.

Grafton Fuel Co.	Grafton	Barbour	W. Va.
Great Scott Coal Co.	Morgantown	Monongalia	W. Va.
Gorman Coal & Coke Co.	Austen	Preston	W. Va.
Grafton Coal & Coke Co.	Grafton	Taylor	W. Va.
Gleason Coal & Coke Co.	Upper Potomac	Mineral	W. Va.
Glade Run Coal & Coke Co.	Schell	Mineral	W. Va.
Green W. H.	Coalton	Randolph	W. Va.
Gatzmer Coal & Coke Co.	Dobbin	Tucker	W. Va.
Glendale Coal Co.	Glendale	Marshall	W. Va.
Gilmer Fuel Co.	Gilmer	Gilmer	W. Va.
Graham W. W.	Graham Mines	Kanawha	W. Va.
Gates Coal & Coke Co.	Big Chimney	Kanawha	W. Va.
Great Kanawha Colliery Co.	Mt. Carbon	Fayette	W. Va.
Glade Coal Company	Cliff Top	Fayette	W. Va.
Gamoca Coal Company	Gamoca	Fayette	W. Va.
Gauley Mountain Coal Co.	Ansted	Fayette	W. Va.
Gaymont Colliery Co.	Elmo	Fayette	W. Va.
Glendale Colliery Co.	Lawton	Fayette	W. Va.
Greenwood Coal Co.	Lawton	Fayette	W. Va.
Gulf Coal Co.	Winding Gulf	Raleigh	W. Va.
Gulf Smokeless Coal Co.	Tams	Raleigh	W. Va.
Gilliam Coal & Coke Co.	Gilliam	McDowell	W. Va.
Greenbrier Coal & Coke Co.	McDowell	McDowell	W. Va.
Godfrey Coal Co.	Crystal	McDowell	W. Va.
Gay Coal & Coke Co.	Logan	W. Va.	
Guyandotte Coal Co.	Branchfield	Logan	W. Va.
Great Bend Coal Co.	Matewan	Mingo	W. Va.
Glen Alum Coal Co.	Glen Alum	Mingo	W. Va.
Guyan River Coal Co.	Branchfield	Lincoln	W. Va.
Gray Eagle Coal Co.	Kermit	Mingo	W. Va.

H.

Harry B. Coal Co.	Fairmont	Marion	W. Va.
Harry B. Coal Co.	Clarksburg	Harrison	W. Va.
Haywood Coal Mining Co.	Shinnston	Harrison	W. Va.
Harrison County Coal Co.	Fairmont	Harrison	W. Va.
Hero Coal & Coke Co.	Lumberport	Harrison	W. Va.
Hygrade Coal Co.	McWhorter	Harrison	W. Va.
Hutchinson Coal Co.	Fairmont	Harrison	W. Va.
Hutchinson Coal Company	Mason	Mason	W. Va.
Hartford Coal & Mining Co.	Hartford	Mason	W. Va.
Humphries Collieries Co.	Pittsburg, Pa.	Barbour	W. Va.
Hamilton Coal & Coke Co.	Newbury	Preston	W. Va.
Hite Coal & Coke Co.	Hiorra	Preston	W. Va.
Hiorra Coke Co.	Hiorra	Preston	W. Va.
Harrison Coal Co.	Tyreconnell	Taylor	W. Va.
Hamill Coal & Coke Co.	Blaine	Mineral	W. Va.
Hitchman Coal & Coke Co.	Wheeling	Marshall	W. Va.
Hughes Creek Coal Co.	Hughesston	Kanawha	W. Va.
Holley & Stephenson Coal & Coke Co.	Eskdale	Kanawha	W. Va.
Hickory Ash Coal Co.	Peytona	Boone	W. Va.
Herbert Collieries Co.	Hrberton	Fayette	W. Va.
Holliday Coal Co.	Edmond	Fayette	W. Va.
Hemlock Hollow Coal & Coke Co.	Lawton	Fayette	W. Va.
Harvey Coal & Coke Co.	Harvey	Fayette	W. Va.
Hiawatha Coal & Coke Co.	Hiawatha	Mercer	W. Va.
Houston Coal & Coke Co.	Elkhorn	McDowell	W. Va.
Hall Mining Co.	Yukon	McDowell	W. Va.
Harmon Coal Co.	War	McDowell	W. Va.
Hempbill Colliery Co.	Welch	McDowell	W. Va.
Henrietta Coal Co.	English	McDowell	W. Va.
Hurricane Branch Coal Co.	Lex	McDowell	W. Va.
Howard Colliery Co.	Chattaroy	Mingo	W. Va.
Howard Jr. Coal Co.	Chattaroy	Mingo	W. Va.
H. T. Wilson Coal Co.	Logan	Logan	W. Va.

I.

Imperial Colliery Co.	Burnwell	Kanawha	W. Va.
Indian Ridge Coal & Coke Co.	Worth	McDowell	W. Va.
Imperial Pocahontas Coal Co.	Avondale	McDowell	W. Va.
Irona Coal Company	Irona	Preston	W. Va.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
J.			
Jamison Coal & Coke Co.	Farmington	Marion	W. Va.
Jordan S. H.	Corinth	Preston	W. Va.
J. B. Jenkins Coal & Coke Co.	Malie	Randolph	W. Va.
Johnson, W. R. Coal Co.	Crescent	Fayette	W. Va.
J. B. B. Coal Co.	Irvin Branch	McDowell	W. Va.
Jed Coal & Coke Co.	Jed	McDowell	W. Va.
J. P. Shanklin Coal Co.	Blockton	Mingo	W. Va.
J. S. Creighton	Elm Grove	Ohio	W. Va.
Jackson Coal Mining Co.	Hartford	Mason	W. Va.
K.			
Kalam Coal & Coke Co.	Monongah	Marion	W. Va.
Kroner Gas Coal Co.	McWhorter	Lewis	W. Va.
Kinawood Coal Co.	Howesville	Preston	W. Va.
Kuntz Bros. & Miller	Wheeling	Marshall	W. Va.
Kellys Creek Collieries Co.	Ward	Kanawha	W. Va.
Kenneys Creek Colliery Co.	Winona	Fayette	W. Va.
Keystone Coal & Coke Co.	Keystone	McDowell	W. Va.
King Coal Co.	Kimball	McDowell	W. Va.
Ken. va Coal Mining Co.	Blanchland	Lincoln	W. Va.
Kohinoor Coal & Coke Co.	Logan	Logan	W. Va.
Katherine Coal Co.	Gilmer	Gilmer	W. Va.
L.			
Lamberts Run Coal Co.	Fairmont	Harrison	W. Va.
Lumberport Steam Coal Co.	Lumberport	Harrison	W. Va.
Laurel Creek Coal Co.	Grafton	Barbour	W. Va.
Luella Coal Co.	Phillippi	Barbour	W. Va.
La Belle Iron Works	Steubenville, O.	Ohio	Ohio
La Belle Iron Works	Steubenville, O.	Ohio	Ohio
Lewis Findley Coal Co.	Collier	Brooke	W. Va.
Lewis Coal & Coke Co.	Chelyan	Kanawha	W. Va.
Loup Creek Colliery Co.	Page	Fayette	W. Va.
Lynchburg Colliery Co.	Vanetta	Fayette	W. Va.
Lynchout Coal & Coke Co.	Lynchout	Fayette	W. Va.
Laurel Creek Coal Co.	Laurel Creek	Fayette	W. Va.
Low Moor Iron Co. of Va.	Kaymoor	Fayette	W. Va.
Laura Mining Co.	Glen Jean	Fayette	W. Va.
Lynwin Coal Co.	Blue Jay	Raleigh	W. Va.
Lamar Coal Co.	Lamar	Raleigh	W. Va.
Louisville Coal Coal & Coke Co.	Goochville	Mercer	W. Va.
Lynchburg Coal & Coke Co.	Kyle	McDowell	W. Va.
Lethrop Coal Co.	Panther	McDowell	W. Va.
Logan Coal Co., The	Ethel	Logan	W. Va.
M.			
Madeira-Hill-Clark Coal Co.	Wilsonburg	Harrison	W. Va.
Marshall Coal Co.	Mt. Clare	Harrison	W. Va.
Marion Gas Coal Co.	Enterprise	Harrison	W. Va.
Meriden Coal Mining Co.	Meriden	Barbour	W. Va.
Miller Coal & Coke Co.	Junior	Barbour	W. Va.
Midland Coal & Coke Co.	Boylan	Barbour	W. Va.
MERCHANTS Coal Co. of Penna.	Tunnelton	Preston	W. Va.
McGraw Coal Co.	Simpson	Taylor	W. Va.
Maryland Coal Co. of W. Va.	Simpson	Taylor	W. Va.
Mastellar Coal Co.	Keyser	Mineral	W. Va.
Midland Mining Co.	Piedmont	Mineral	W. Va.
Miffin Coal Co.	Clifton	Logan	W. Va.
McCa Coal Co.	Gilmer	Gilmer	W. Va.
Marquet Coal Co., The	New Cumberland	Hancock	W. Va.
Mound City Coal Co.	Wheeling	Marshall	W. Va.
Marmet Coal Co., The	Marmet	Kanawha	W. Va.
Marmet Coal Co., The	Monarch	Kanawha	W. Va.
Manchester Coal Co.	Wheeling	Ohio	W. Va.
Merca Colliery Co.	Montgomery	Kanawha	W. Va.
Merca Colliery Co.	Eagle	Fayette	W. Va.
M. B. Coal & Coke Co.	Kimberly	Fayette	W. Va.
Mt. Carlton Co., Ltd.	Powellton	Fayette	W. Va.
Milburn Coal & Coke Co.	Mahan	Fayette	W. Va.
Mill Creek Colliery Co.	Ansted	Fayette	W. Va.
Michigan Coal Co.	Fayette	Fayette	W. Va.
Manufacturers & Consumers Coal Co.	Fayette	Fayette	W. Va.
Moseley & Walker	Cliff Top	Fayette	W. Va.
Mars Branch Coal Co.	Whitney	Fayette	W. Va.
Meadow Fork Coal Co.	Newlyn	Fayette	W. Va.
McKell Coal Co.	Glen Jean	Fayette	W. Va.
MacDonald Colliery Co.	MacDonald	Fayette	W. Va.
Mt. Hope Coal & Coke Co.	Mt. Hope	Fayette	W. Va.
Montgomery Coal Co.	Montgomery	Kanawha	W. Va.
Morris Fork Coal Co.	Heatherton	Kanawha	W. Va.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
Morris Creek Colliery Co.	Montgomery	Kanawha	W. Va.
Mill Creek Coal Co.	Charleston	Kanawha	W. Va.
Mahscoff Coal & Coke Co.	Wickham	W. Va.	Raleigh
MacAlpin Coal Company	MacAlpin	Raleigh	W. Va.
Mill Creek Coal & Coke Co.	Craters	Mercer	W. Va.
McDowell Coal & Coke Co.	McDowell	McDowell	W. Va.
Mohawk Coal & Coke Co.	Mohawk	McDowell	W. Va.
Middle States Coal & Coke Co.	Olmitz	McDowell	W. Va.
Monitor Coal & Coke Co.	Logan	Logan	W. Va.
McGregor Coal & Coke Co.	Rolle	Logan	W. Va.
Manitoba Coal Co.	Ethel	Logan	W. Va.
Manbar Coal Co.	Logan	Logan	W. Va.
Marvin Coal Co.	Marawan	Mingo	W. Va.
Margaret Mining Co.	War Eagle	Mingo	W. Va.
Magnolia Coal Co.	Madewan	Mingo	W. Va.
Mary Helen Coal Co.	Hatfield	Mingo	W. Va.

N.

New Central Coal Co.	Fairmont	Marion	W. Va.
National Coal Co.	Dola	Harrison	W. Va.
Newcomer Coal Co.	Teter	Upshur	W. Va.
New Clear Grove Coal & Brick Co.	Cedar Grove	Kanawha	W. Va.
Nicholas Coal & Coke Co.	Spotford	Clay and Nicholas	W. Va.
Nuttallburg Collieries Co.	Nuttallburg	Fayette	W. Va.
New River & Pocahontas Consolidated Coal Co.	Berwood	Fayette	W. Va.
New River & Pocahontas Consolidated Coal Co.	Minden	McDowell	W. Va.
New River Valley Coal Co.	Layland	Fayette	W. Va.
New River Collieries Co., The	Sun	Fayette	W. Va.
Newlyn Coal Co.	Newlyn	Fayette	W. Va.
Nichol Colliery Co.	Glen Jean	Fayette	W. Va.
Naugaturk Coal Co.	Bloxton	Mingo	W. Va.

O.

Orr Coal Mining Co.	Wilsonburg	Harrison	W. Va.
O'Gara Coal Mining Co.	Clarksburg	Harrison	W. Va.
Otto Marmet Coal Co., The	Raymond City	Putnam	W. Va.
Oak Forest Coal Co.	Winfield	Putnam	W. Va.
Oleott Coal & Iron Co.	Oleott	Kanawha	W. Va.
Oregon Coal Co.	Hemphill	McDowell	W. Va.

P.

Parker Run Coal & Coke Co.	Grant Town	Marion	W. Va.
Phillips Coal Co.	Fairmont	Marion	W. Va.
Pittsburg Steam Coal Co.	Fairmont	Marion	W. Va.
Pittsburg Steam Coal Co.	Opekiska	Monongalia	W. Va.
Pardee & Curtin Lumber Co.	Curtin	Nicholas	W. Va.
Preston County Coke Co.	Cascade	Preston	W. Va.
Pittsvein Coal Co.	Flemington	Taylor	W. Va.
Pars Run Coal Co.	Moundsville	Marshall	W. Va.
Pertona Block Coal Company	Peyton	Boone	W. Va.
Peter Storch & Son	Wheeling	Ohio	W. Va.
Plymouth Coal & Mining Co.	Plymouth	Putnam	W. Va.
Pen Mar Mining Co.	Big Chimney	Kanawha	W. Va.
Peerless Coal Co.	Lewiston	Kanawha	W. Va.
Pioneer & Peerless Coal Co.	Miami	Kanawha	W. Va.
Paint Creek Collieries Co.	Mucklow	Kanawha	W. Va.
Prudence Coal Co.	Prudence	Fayette	W. Va.
Price Hill Fuel Co.	Price Hill	Fayette & Raleigh	W. Va.
Piney Mining Co.	Stanaford	Raleigh	W. Va.
Pemberton Coal & Coke Co.	Affinity	Raleigh	W. Va.
Pocahontas Consolidated Coll. Co.	Pocahontas, Va.	McDowell & Mercer	W. Va.
Pocahontas Consolidated Coll. Co.	Jenkins	McDowell	W. Va.
Powhatan Coal & Coke Co.	Powhatan	McDowell	W. Va.
Pocahontas Domestic Coal Co.	War	McDowell	W. Va.
Premier Pocahontas Colliery Co.	Premier	McDowell	W. Va.
Pando Coal Co., The	Pando	McDowell	W. Va.
Pocahontas Smokeless Coal Co.	Welch	McDowell	W. Va.
Peerless Coal & Coke Co.	Vivian	McDowell	W. Va.
Page Coal & Coke Co.	Pageco	McDowell	W. Va.
Pulaski Iron Co.	Eckman	McDowell	W. Va.
Pawama Coal & Coke Co.	Matoaka	Mercer	W. Va.
Price Coal Co.	Ethel	Logan	W. Va.
Poole W. T., Coal Co.	Williamson	Mingo	W. Va.

Q.

Queen Shoals Coal Co.	Queen Shoals	Clay	W. Va.
Quincy Coal Co.	Quincy	Kanawha	W. Va.
Quinnimont Coal Co.	Quinnimont	Fayette	W. Va.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
R.			
Righter Coal & Coke Company.....	Lost Creek.....	Harrison.....	W. Va.
Rosebud Fuel Co.....	Rosebud.....	Harrison.....	W. Va.
Red Rock Fuel Co.....	Red Rock.....	Upshur.....	W. Va.
Rosemont Coal Co.....	Tyronnell Mines.....	Taylor.....	W. Va.
Rich Mountain Coal Co.....	Alexander.....	Randolph.....	W. Va.
Rex Carbon Coal Co.....	Glendale.....	Brooke.....	W. Va.
Richland Coal Co.....	Wheeling.....	Ohio.....	W. Va.
Republic Coal Co.....	Republic.....	Kanawha.....	W. Va.
Raven Collieries Co.....	Greendale.....	Nicholas.....	W. Va.
Rothwell Coal Co.....	Da'ree.....	Fayette.....	W. Va.
Ridgeview Coal Co.....	Thayer.....	Fayette.....	W. Va.
Raleigh Coal & Coke Co.....	Raleigh.....	Raleigh.....	W. Va.
Roanoke Coal & Coke Co.....	Worth.....	McDowell.....	W. Va.
Reynolds Mining Co.....	Lex.....	McDowell.....	W. Va.
Red Jacket Consolidated Coal & Coke Co.....	Red Jacket.....	Mingo.....	W. Va.
Red Jacket Junior Coal Co.....	Red Jacket.....	Mingo.....	W. Va.
Rex Coal & Coke Company.....	Ethel.....	Logan.....	W. Va.
S.			
Short Line Coal Co.....	Dola.....	Harrison.....	W. Va.
Swiger Coal Co.....	Rosebud.....	Harrison.....	W. Va.
Saxman Coal & Coke Co.....	Saxman.....	Nicholas.....	W. Va.
Sterling Coal Co.....	Cecil.....	Taylor.....	W. Va.
Sleepy Mountain Anthracite Coal Co.....	Hancock.....	Morgan.....	W. Va.
Standard-Kanawha Coal Mining Company.....	Quick.....	Kanawha.....	W. Va.
Southwestern Splint Fuel Co.....	Crown Hill.....	Kanawha.....	W. Va.
Southren Collieries Co.....	Eskdale.....	Kanawha.....	W. Va.
Standard Splint & Gas Coal Co.....	Standard.....	Kanawha.....	W. Va.
Sunday Creek Co.....	Cedar Grove.....	Kanawha.....	W. Va.
Sunday Creek Co.....	Longacre.....	Fayette.....	W. Va.
Seng Creek Coal Co.....	Charleston.....	Boone.....	W. Va.
Spruce River Coal Co.....	Ramage.....	Boone.....	W. Va.
St Clair Colliery Co.....	Fayette.....	Fayette.....	W. Va.
Signal Knob Coal Co.....	Ansted.....	Fayette.....	W. Va.
Snubury Coal & Coke Co.....	Elmo.....	Fayette.....	W. Va.
Sewell Colliery Co.....	Caperton.....	Fayette.....	W. Va.
Stone Cliff Coal & Coke Co.....	Stone Cliff.....	Fayette.....	W. Va.
Scotia Coal & Coke Co.....	Rush Run.....	Fayette.....	W. Va.
South Side Co.....	Caperton.....	Fayette.....	W. Va.
Star Coal & Coke Co.....	Red Star.....	Fayette.....	W. Va.
Stuart Colliery Co.....	Paral.....	Fayette.....	W. Va.
Sugar Creek Coal & Coke Co.....	MacDonald.....	Fayette.....	W. Va.
Solvay Collieries Co.....	Kingston.....	Fayette.....	W. Va.
Superior-Pocahontas Coal Co.....	Hallsville.....	McDowell.....	W. Va.
Solvay Collieries Co.....	Marytown.....	McDowell.....	W. Va.
Shawnee Coal & Coke Co.....	Eckman.....	McDowell.....	W. Va.
Standard-Pocahontas Coal Co.....	Welch.....	McDowell.....	W. Va.
Sullivan Coal & Coke Co.....	Pemberton.....	Raleigh.....	W. Va.
Stonewall Coal & Coke Co.....	Terry.....	Raleigh.....	W. Va.
Slab Fork Coal Co.....	Slab Fork.....	Raleigh.....	W. Va.
Soak Creek Coal Co.....	Raleigh.....	Raleigh.....	W. Va.
Smokeless Coal & Coke Co.....	Hiawatha.....	Mercer.....	W. Va.
Spring Coal Mining Co.....	Springton.....	Mercer.....	W. Va.
Stone Branch Coal Co.....	Stone Branch.....	Logan.....	W. Va.
Shamrock Coal Co.....	Logan.....	Logan.....	W. Va.
Sycamore Coal Co.....	Cinderella.....	Mingo.....	W. Va.
Superior-Thacker Coal Co.....	Williamson.....	Mingo.....	W. Va.
Spruce Bend Coal Co.....	Sharpless.....	Logan.....	W. Va.
T.			
Tygart's River Coal Co.....	Arden.....	Barbour.....	W. Va.
T. B. Davis.....	Piedmont.....	Taylor.....	W. Va.
Thurmond Coal Co., The.....	Concho.....	Fayette.....	W. Va.
Turkey Knob Coal Co.....	MacDonald.....	Fayette.....	W. Va.
Thomas Coal Co.....	McComas.....	Mercer.....	W. Va.
T. D. Lee Coal Co.....	Bramwell.....	Mercer.....	W. Va.
Tidewater Coal & Coke Co.....	Vivian.....	McDowell.....	W. Va.
Turkey Gap Coal & Coke Co.....	Ennis.....	McDowell.....	W. Va.
Thacker Coal & Coke Co.....	Thacker Mines.....	Mingo.....	W. Va.
U.			
Upland Coal & Coke Co.....	Elkhorn.....	McDowell.....	W. Va.
United States Coal & Coke Co.....	Gary.....	McDowell.....	W. Va.
United States Coal & Oil Co.....	Holden.....	Logan.....	W. Va.
V.			
Virginia & Pittsburg Coal & Coke Co.....	Grant Town.....	Marion.....	W. Va.
Virginia-Maryland Coal Corporation.....	Shinnston.....	Harrison.....	W. Va.
Vincent Coal Co.....	Clarksburg.....	Harrison.....	W. Va.

NAME OF COMPANY	P. O. ADDRESS	COUNTY	STATE
V. & O. Red Ash Coal Co.....	Clay.....	Clay.....	W. Va.
Virginia Coal Co.....	Spring Fork.....	Kanawha.....	W. Va.
Virginia-Pocahontas Coal Co.....	Coalwood.....	McDowell.....	W. Va.
Virginia Fuel Co.....	Big Four.....	McDowell.....	W. Va.
Vaughan Coal & Coke Co.....	Rollerfield.....	McDowell.....	W. Va.

W.

Winona Coal & Coke Co.....	Grafton.....	Taylor.....	W. Va.
Western Maryland Coal Co.....	Grafton.....	Mineral.....	W. Va.
West Virginia Pulp & Paper Co.....	Cass.....	Randolph.....	W. Va.
Wheeling Steel & Iron Co.....	Wheeling.....	Marshall.....	W. Va.
Whittaker-Glessner Co.....	Wheeling.....	Ohio.....	W. Va.
Winifrede Coal Co.....	Winifrede.....	Kanawha.....	W. Va.
Wyatt Coal Co.....	Sharon.....	Kanawha.....	W. Va.
Wake Forest Mining Co.....	Wake Forest.....	Kanawha.....	W. Va.
West Virginia Colliery Co.....	Wevaco.....	Kanawha.....	W. Va.
Williams Coal Co.....	Sanderson.....	Kanawha.....	W. Va.
W. R. Johnson & Co.....	Smithers.....	Fayette.....	W. Va.
White Oak Fuel Co.....	Scarbro.....	Fayette.....	W. Va.
Webb Coal Mining Company.....	High Coal.....	Boone.....	W. Va.
Wright Coal & Coke Co.....	Wright.....	Raleigh.....	W. Va.
Wood Peck Coal Company.....	Sullivan.....	Raleigh.....	W. Va.
Winding Gulf Colliery Co.....	Winding Gulf.....	Raleigh.....	W. Va.
Weyanoke Coal & Coke Co.....	Lowe.....	Mercer.....	W. Va.
Wenonah Coal & Coke Co., The.....	Dett.....	Mercer.....	W. Va.
War Creek Coal Co.....	War.....	McDowell.....	W. Va.
West Virginia-Pocahontas Coal Co.....	Leckie.....	McDowell.....	W. Va.
Welch Coal & Coke Co.....	Weich.....	McDowell.....	W. Va.
Williamson Coal & Coke Co.....	Williamson.....	Mingo.....	W. Va.
White Star Mining Co.....	Merrimac.....	Mingo.....	W. Va.
War Eagle Coal Co.....	War Eagle.....	Mingo.....	W. Va.

Y.

Yukon-Pocahontas Coal Co.....	Yukon.....	McDowell.....	W. Va.
Yuma Coal & Coke Company.....	Logan.....	Logan.....	W. Va.

Z.

Zenith Coal & Coke Co.....	Crumpler.....	McDowell.....	W. Va.
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QUANTITY AND VALUE OF COAL PRODUCED IN THE UNITED STATES, 1911, IN SHORT TONS, AND PERCENTAGE OF INCREASE OR DECREASE OVER 1910, AS SHOWN BY THE UNITED STATES GEOLOGICAL SURVEY REPORT FOR YEAR 1911.

STATE.	1911		Increase (+) or decrease (—), 1911.		Percentage of increase or decrease, 1911.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
Alabama	15,021,421	19,079,949	1,090,041	1,156,904	6.77	5.72
Arkansas	2,106,789	3,396,849	200,831	417,636	10.54	14.02
California and Alaska	11,647	23,297	517	10,639	1.25	30.11
Colorado	10,157,383	14,747,764	1,816,553	2,279,170	15.17	13.39
Georgia and North Carolina	165,330	246,418	11,915	12,674	6.72	4.89
Idaho and Nevada	1,821	4,872	2,627	12,554	59.60	72.04
Illinois	53,679,118	59,519,478	7,778,872	7,113,581	16.95	13.57
Indiana	14,201,355	15,326,808	4,188,460	5,486,851	22.78	26.36
Iowa	7,331,648	12,663,507	596,472	1,240,406	7.52	8.92
Kansas	6,254,228	9,645,572	1,332,777	1,730,863	27.08	21.87
Kentucky	13,706,839	13,627,217	916,480	788,670	6.27	5.47
Maryland	4,685,795	5,197,066	531,330	637,992	10.18	10.93
Michigan	1,476,074	2,791,461	58,803	139,310	3.84	4.75
Missouri	3,760,607	6,431,066	778,174	1,102,781	26.09	20.70
Montana	2,976,358	5,342,168	55,388	12,846	1.90	0.24
New Mexico	3,148,158	4,525,925	360,163	351,226	10.27	7.20
North Dakota	502,628	720,489	163,587	125,350	25.96	21.06
Ohio	30,759,986	31,810,123	3,449,682	4,122,165	10.98	11.47
Oklahoma	3,074,242	6,291,494	428,016	423,547	16.17	7.22
Oregon	46,661	108,035	20,872	127,196	30.91	51.07
Pennsylvania, bituminous	144,754,163	149,347,858	5,767,363	6,681,652	3.83	4.37
Tennessee	6,433,156	7,209,731	688,224	715,616	9.66	9.63
Texas	1,974,593	3,273,288	82,417	112,323	4.36	3.56
Utah	2,513,175	4,248,666	4,634	24,110	0.18	0.57
Virginia	6,804,667	6,254,804	356,670	377,318	5.48	6.42
Washington	3,572,815	8,174,170	339,084	1,590,295	8.67	16.2
West Virginia	59,831,580	53,670,515	1,839,439	2,994,546	2.98	5.28
Wyoming	6,714,864	10,508,863	788,224	1,197,324	10.46	10.23
Total bituminous	105,757,101	451,177,481	11,354,041	18,104,235	2.72	3.86
Pennsylvania, anthracite	90,161,067	175,189,392	5,978,831	14,914,090	7.08	9.31
Grand total	496,221,168	626,366,873	5,375,210	3,190,145	1.07	0.51

THE FOLLOWING IS A TABLE SHOWING THE QUANTITY OF COAL PRODUCED AND DISTRIBUTION OF SAME, ETC., BY STATES AND TERRITORIES IN THE UNITED STATES FOR THE YEAR OF 1911 AS REPORTED BY THE UNITED STATES GEOLOGICAL SURVEY

(Tons of 2,000 lbs.)

STATE	Landed at mines for shipment	Sold to local trade and used by employees	Used at mine for steam and heat	Made into coke	Total quantity	Total value	Average price per ton	Average number of days active	Average number of employees
Alabama	11,135,566	141,191	615,355	3,129,352	15,021,121	\$19,799,919	1.27	227	22,70
Arkansas	1,999,893	16,500	93,126		2,106,519	3,396,849	1.61	133	3,657
California and Alaska	1,981	3,986	680		11,617	23,297	2.00	265	60
Colorado	8,104,712	393,473	324,947	1,124,251	10,147,383	11,747,764	1.15	207	11,311
Georgia and North Carolina	86,161	1,007	5,185	72,671	165,930	246,448	1.49	277	514
Idaho and Nevada		1,791	30		1,821	4,872	2.68	228	13
Illinois	49,167,827	2,806,197	1,625,319	85,775	53,679,118	59,549,478	1.11	188	76,000
Indiana	63,131,954	637,978	108,124		11,291,335	15,426,808	1.05	182	21,482
Iowa	6,591,899	322,549	294,239		7,351,618	12,663,507	1.73	203	16,599
Kansas	5,932,062	142,621	178,967		6,253,650	9,645,579	1.51	198	11,025
Kentucky	12,632,220	601,617	334,111	115,498	13,706,839	16,617,217	1.21	191	21,211
Maryland	4,516,900	72,600	66,145		1,682,335	3,197,066	1.11	243	3,381
Michigan	1,547,141	26,121	58,893		1,476,674	2,791,461	1.89	218	3,325
Missouri	5,250,414	456,346	73,817		3,760,607	6,431,066	1.71	183	9,991
Montana	2,739,529	80,953	297,678		3,732,168	5,742,168	1.59	229	3,866
New Mexico	2,398,102	27,264	45,324	767,408	3,118,158	4,525,925	1.44	230	3,967
North Dakota	359,675	139,665	12,898		592,628	720,189	1.43	229	640
Ohio	28,111,734	682,777	2,777	536	36,759,986	31,800,123	1.03	179	16,935
Oklahoma	2,840,992	17,271	186,966		3,674,242	6,294,491	2.02	156	8,790
Oregon	22,407	10,216	11,038		46,661	108,033	2.32	179	189
Pennsylvania, bituminous	107,055,476	3,613,660	3,265,196	30,849,557	114,754,163	116,317,858	1.01	277	168,251
Tennessee	5,731,401	97,647	122,416	161,963	6,433,436	7,200,731	1.12	332	10,763
Texas	18,77,901	36,912	37,780		1,374,303	3,253,288	1.66	226	3,333
Virginia	2,001,892	27,736	48,790	381,066	2,513,175	4,208,666	1.69	236	3,990
Washington	2,230,891	82,549	181,500	1,369,764	6,861,667	6,241,801	1.91	261	7,392
West Virginia	3,230,991	163,932	178,140		3,572,815	8,174,170	2.29	225	6,498
Wyoming	3,171,423	1,045,547	1,973,967	45,407,063	39,831,530	53,676,515	1.36	221	66,730
	6,386,636	82,932	275,966		6,744,834	10,598,893	1.56	230	7,924
Total bituminous	340,025,580	13,234,341	19,279,813	12,217,167	495,757,401	451,177,434	1.11	211	549,750
Pennsylvania, anthracite	78,894,589	2,296,431	9,273,927		90,464,907	155,189,392	1.71	216	172,585
Grand Total	118,929,169	15,530,992	19,552,840	12,217,167	1,622,1408	676,546,876	1.26	220	729,838

THE FOLLOWING IS A STATEMENT SHOWING THE RANK OF THE COAL PRODUCING STATES, AS REPORTED BY THE U. S. GEOLOGICAL SURVEY, FOR THE YEAR OF 1910, WITH QUANTITY AND VALUE OF PRODUCTION AND PERCENTAGE OF EACH.

1910,

Production.				Value.			
Rank.	State or Territory	Quality (short tons)	Percentage of total production.	Rank.	State or Territory	Value	Percentage of total value.
1	Pennsylvania:			1	Pennsylvania:		
	Anthracite	84,485,236	16.8		Anthracite	\$ 160,275,320	25.5
	Bituminous	150,521,526	30.0		Bituminous	153,029,510	24.3
2	West Virginia	61,671,019	12.3	2	West Virginia	56,665,061	9.0
3	Illinois	45,900,246	9.1	3	Illinois	52,405,897	8.3
4	Ohio	34,209,668	6.8	4	Ohio	35,932,288	5.7
5	Indiana	18,389,815	3.7	5	Indiana	20,813,659	3.3
6	Alabama	16,111,462	3.2	6	Alabama	20,236,853	3.2
7	Kentucky	14,623,319	2.9	7	Colorado	17,026,934	2.7
8	Colorado	11,973,736	2.4	8	Kentucky	14,405,887	2.3
9	Iowa	7,928,120	1.6	9	Iowa	13,963,913	2.2
10	Wyoming	7,533,088	1.5	10	Wyoming	11,706,187	1.9
11	Tennessee	7,121,380	1.4	11	Washington	9,764,465	1.5
12	Virginia	6,507,997	1.3	12	Tennessee	7,925,550	1.3
13	Maryland	6,217,125	1.0	13	Kansas	7,914,709	1.3
14	Kansas	4,921,451	1.0	14	Virginia	5,877,486	.9
15	Washington	3,911,899	.8	15	Oklahoma	5,867,947	.9
16	New Mexico	3,598,321	.7	16	Maryland	5,835,058	.9
17	Missouri	2,982,432	.6	17	Montana	5,329,322	.8
18	Montana	2,920,970	.6	18	Missouri	5,328,285	.8
19	Oklahoma	2,646,226	.5	19	New Mexico	4,877,151	.8
20	Utah	2,517,869	.5	20	Utah	4,224,556	.7
21	Arkansas	1,903,958	.4	21	Texas	3,160,965	.5
22	Texas	1,892,176	.4	22	Arkansas	2,979,213	.5
23	Michigan	1,534,967	.3	23	Michigan	2,930,771	.5
24	North Dakota	399,041	.1	24	North Dakota	595,139	.1
25	Georgia	177,245		25	Georgia	259,122	
26	Oregon	67,533		26	Oregon	235,239	
27	California and Alaska	12,164	.1	27	California and Alaska	33,336	.1
28	Idaho	4,448		28	Idaho	17,426	
	Total	501,596,378	100.0		Total	\$ 629,557,021	100.0

THE FOLLOWING IS A STATEMENT SHOWING THE RANK OF THE COAL PRODUCING STATES, AS REPORTED BY THE U. S. GEOLOGICAL SURVEY, FOR THE YEAR 1911, WITH QUANTITY AND VALUE OF PRODUCTION AND PERCENTAGE OF EACH.

1911

Production.				Value.			
Rank	State or Territory	Quantity (short tons)	Percentage of total production.	Rank	State or Territory	Value	Percentage of total Value
1	Pennsylvania:			1	Pennsylvania		
	Anthracite.....	90,464,067	18.2		Anthracite.....	175,189,392	28.0
	Bituminous.....	144,754,163	29.2		Bituminous.....	146,347,858	23.4
2	West Virginia.....	59,831,580	12.1	2	Illinois.....	59,519,478	9.5
3	Illinois.....	53,679,118	10.8	3	West Virginia.....	53,670,515	8.6
4	Ohio.....	30,759,986	6.2	4	Ohio.....	31,810,123	5.1
5	Alabama.....	15,021,421	3.0	5	Alabama.....	19,079,949	3.0
6	Indiana.....	14,201,355	2.9	6	Indiana.....	15,326,808	2.4
7	Kentucky.....	13,706,839	2.8	7	Colorado.....	14,747,764	2.4
8	Colorado.....	10,156,383	2.0	8	Kentucky.....	13,617,217	2.2
9	Iowa.....	7,331,648	1.5	9	Iowa.....	12,663,507	2.0
10	Virginia.....	6,864,667	1.4	10	Wyoming.....	10,508,863	1.7
11	Wyoming.....	6,744,864	1.4	11	Kansas.....	9,645,572	1.5
12	Tennessee.....	6,433,156	1.3	12	Washington.....	8,174,170	1.3
13	Kansas.....	6,254,228	1.3	13	Tennessee.....	7,209,734	1.2
14	Maryland.....	4,685,795	.9	14	Missouri.....	6,431,066	1.0
15	Missouri.....	3,760,667	.7	15	Oklahoma.....	6,291,494	1.0
16	Washington.....	3,572,815	.7	16	Virginia.....	6,254,804	1.0
17	New Mexico.....	3,148,158	.6	17	Montana.....	5,342,168	.9
18	Oklahoma.....	3,074,242	.6	18	Maryland.....	5,197,066	.8
19	Montana.....	2,976,358	.6	19	New Mexico.....	4,525,925	.7
20	Utah.....	2,513,175	.5	20	Utah.....	4,248,666	.7
21	Arkansas.....	2,106,786	.4	21	Arkansas.....	3,396,849	.5
22	Texas.....	1,974,593	.4	22	Texas.....	3,273,288	.5
23	Michigan.....	1,476,074	.3	23	Michigan.....	2,791,461	.4
24	North Dakota.....	502,628	.1	24	North Dakota.....	720,480	.1
25	Georgia and North Carolina.....	165,330		25	Georgia and North Carolina.....	246,448	
26	Oregon.....	46,661		26	Oregon.....	108,933	
27	California and Alaska.....	11,647	.1	27	California and Alaska.....	23,297	.1
28	Idaho and Nevada.....	1,821		28	Idaho and Nevada.....	4,872	
Total.....		496,221,168	100.0	Total.....		626,366,876	100.0

THE FOLLOWING TABLE, COMPILED BY THE U. S. GEOLOGICAL SURVEY SHOWS THE TOTAL QUANTITY AND VALUE OF PETROLEUM PRODUCED IN THE UNITED STATES, AND THE AVERAGE PRICE PER BARREL BY STATES, IN BARRELS, FOR THE YEARS 1910 AND 1911.

State.	1910			1911		
	Quantity.	Value.	Average price per barrel.	Quantity.	Value.	Average price per barrel.
California.....	73,010,560	\$ 35,749,473	\$0.490	81,134,391	\$ 38,719,080	0.477
Colorado.....	239,794	243,402	1.015	226,926	228,104	1.005
Illinois.....	33,143,362	19,669,383	.593	31,317,038	19,734,339	.630
Indiana.....	2,159,725	1,568,475	.726	1,695,280	1,228,835	.740
Kansas.....	1,128,668	444,763	.394	1,278,819	608,756	.467
Kentucky.....	468,774	324,684	.693	472,614	328,614	.696
Louisiana.....	6,841,395	3,574,069	.522	10,720,420	5,668,814	.529
Michigan.....	3,615	4,794	1.326	7,995	7,995	1.000
Missouri.....						
New York.....	1,053,838	1,114,668	1.042	952,515	1,218,950	1.311
Ohio.....	9,916,370	10,651,568	1.074	8,817,112	9,479,542	1.075
Oklahoma.....	52,028,718	19,922,660	.383	56,069,637	26,451,767	.472
Pennsylvania.....	8,794,662	11,908,914	1.354	8,248,158	10,894,074	1.321
Texas.....	8,899,266	6,605,755	.742	9,526,474	6,554,552	.688
Utah.....	115,430	93,536	.810	186,695	124,037	.664
Wyoming.....						
West Virginia.....	11,753,071	15,723,544	1.338	9,795,464	12,767,293	1.303
Total.....	209,557,248	127,899,688	.610	220,449,391	134,044,752	.608

Total Production of Petroleum and Percentage of Increase or Decrease, by States, in 1911, as Compared with 1910, in Barrels.

State.	Production		Increase.	Decrease.	Percentage	
	1910	1911			Increase.	Decrease.
California.....	73,010,560	81,134,391	8,123,831	-----	11.13	-----
Colorado.....	239,794	226,926	-----	12,868	-----	5.37
Illinois.....	33,143,362	31,317,038	-----	1,826,324	-----	5.51
Indiana.....	2,159,725	1,695,280	-----	464,436	-----	21.50
Kansas.....	1,128,668	1,278,819	150,151	-----	13.30	-----
Kentucky.....	468,774	472,458	3,684	-----	00.78	-----
Louisiana.....	6,841,395	10,720,420	3,879,025	-----	56.70	-----
Michigan.....	3,615	7,995	4,380	-----	121.2	-----
Missouri.....				-----		
New York.....	1,053,838	952,515	-----	101,323	-----	9.61
Ohio.....	9,916,370	8,817,112	-----	1,099,258	-----	10.98
Oklahoma.....	52,028,718	56,069,637	4,040,919	-----	7.77	-----
Pennsylvania.....	8,794,662	8,248,158	-----	546,504	-----	6.21
Texas.....	8,899,266	9,526,471	627,205	-----	7.05	-----
Utah.....	115,430	186,695	71,265	-----	61.74	-----
Wyoming.....				-----		
West Virginia.....	11,753,071	9,795,164	-----	1,957,907	-----	16.66
Total.....	209,557,248	220,449,391	10,892,143	-----	5.20	-----

THE FOLLOWING INFORMATION WITH REFERENCE TO THE PRODUCTION OF PETROLEUM IN WEST VIRGINIA WAS TAKEN FROM THE 1911 REPORT OF THE U. S. GEOLOGICAL SURVEY.

Total Production of Petroleum in West Virginia, 1907-1911, by Months, in Barrels.

Month.	1907	1908	1909	1910	1911
January.....	687,251	697,040	735,379	1,026,438	814,743
February.....	695,616	709,103	722,045	955,252	800,712
March.....	771,814	770,689	851,002	1,050,163	881,172
April.....	770,274	779,089	833,432	962,657	810,661
May.....	821,554	823,144	829,833	1,001,746	882,093
June.....	747,071	870,289	870,909	1,618,694	832,920
July.....	812,437	864,877	904,745	984,813	787,171
August.....	785,620	815,242	923,138	1,020,317	838,922
September.....	374,077	803,139	950,188	976,220	773,024
October.....	765,671	793,539	997,295	935,166	795,687
November.....	696,694	739,665	1,016,738	906,521	757,029
December.....	807,217	864,420	1,110,088	935,084	821,330
Total.....	9,095,296	9,523,176	10,745,092	11,753,071	9,795,464

THE QUANTITY AND VALUE OF PETROLEUM PRODUCED IN WEST VIRGINIA FROM 1902 to 1911, INCLUSIVE, ARE SHOWN IN THE FOLLOWING TABLE.

Quantity and Value of Petroleum Produced in West Virginia, 1902-1911.

YEAR.	Regular Crude.			Lubricating Crude.			Total.		
	Quantity.	Value.	Price Per Barrel.	Quantity.	Value.	Price Per Barrel.	Quantity.	Value.	Price Per Barrel.
	Barrels.			Barrels.			Barrels.		
1902	13,498,685	\$ 17,006,469	\$ 1.26	14,660	\$ 33,848	2.31	13,513,345	\$ 17,040,317	1.261
1903	12,893,073	20,499,996	1.59	6,316	16,536	2.62	12,899,389	20,516,532	1.59
1904	12,636,253	20,557,556	1.627	8,433	26,225	3.11	12,644,686	20,583,781	1.628
1905	11,573,545	16,117,816	1.393	4,565	14,815	3.25	11,578,110	16,132,631	1.393
1906	10,111,647	16,138,811	1.596	9,288	31,482	3.39	10,120,936	16,170,293	1.598
1907	9,089,839	15,834,714	1.74	5,457	17,714	3.25	9,095,296	15,852,428	1.743
1908	9,519,875	16,902,968	1.775	3,301	8,897	2.70	9,523,176	16,911,865	1.776
1909	10,742,026	17,684,335	1.642	3,066	7,948	2.59	10,745,092	17,642,283	1.642
1910	11,751,018	15,717,796	1.338	2,033	5,748	2.80	11,753,071	15,753,544	1.338
1911	9,792,324	12,757,861	1.302	9,140	9,432	3.00	9,795,464	12,767,293	1.30

WELL RECORD.

(Taken from U. S. Geological Survey.)

Number of Wells Completed in West Virginia in 1911, by Districts and Months.

District	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total 1911	Total 1910
Brooke County	1						2						3	26
Burning Springs	1	1		2	1	1	4	6	2	4	4	5	31	30
Cabell County	1		1	2		1							5	17
Calhoun County	1		7	2	2	2	1	4	3	4	5	2	33	24
Hancock County						1		1	1	2	3		8	7
Lincoln County	7	1	7	3	2	5	5	10	7	10	1	10	68	148
Mannington	35	32	24	31	15	14	31	17	22	21	18	20	280	500
Pleasants County	4	4	11	5	8	9	6	6	11	7	6	13	90	141
Ritchie	11	13	13	12	15	13	16	20	11	14	16	16	170	159
Roane County	23	24	19	13	19	13	21	16	13	17	6	10	194	269
Sistersville	1	3	1	1	5	1	3	1		1		1	18	10
Wetzel and Tyler Counties	10	15	8	11	9	8		15	17	9	6	9	117	162
Wood County	4	6	9	4	6	6	3	7	7	6	11		80	75
Miscellaneous	3	9	6	14	14	7	13	4	7	3	4	10	94	48
Total	102	108	106	100	96	81	105	107	101	98	80	107	1,191	1,616

DEPARTMENT OF THE INTERIOR, U. S. BUREAU OF MINES.

Report of Permissible Explosives Tested Prior to January 1, 1912.

Brand.	Class Designation	Manufacturer.
Aetna Coal Powder A.....	Class 4.....	Aetna Powder Company, Chicago, Ill.
Aetna Coal Powder AA.....	Class 1-a.....	Do.
Aetna Coal Powder B.....	Class 4.....	Do.
Aetna Coal Powder C.....	Do.....	Do.
Bental Coal Powder No. 1-A.....	Class 1-a.....	Independent Powder Company of Missouri, Joplin, Mo.
Bental Coal Powder No. 2.....	Do.....	Do.
Bituminite No. 1.....	Class 4.....	Jefferson Powder Company, Birmingham, Ala.
Bituminite No. 3.....	Do.....	Do.
Bituminite No. 4.....	Do.....	Do.
Bituminite No. 7.....	Class 1-a.....	Do.
Cameron Mine Powder No. 1-A.....	Do.....	Cameron Powder Manufacturing Company, Emporium, Pa.
Cameron Mine Powder No. 2-A.....	Do.....	Do.
Cameron Mine Powder No. 2-A L. F.....	Do.....	Do.
Cameron Mine Powder No. 3-A.....	Class 4.....	Do.
Carbonite No. 1.....	Do.....	E. I. Du Pont de Nemours Powder Company, Wilmington, Del.
Carbonite No. 2.....	Do.....	Do.
Carbonite No. 3.....	Do.....	Do.
Carbonite No. 4.....	Do.....	Do.
Carbonite No. 5.....	Do.....	Do.
Carbonite No. 6.....	Do.....	Do.
Coalite No. 1.....	Do.....	Potts Powder Company, New York, N. Y.
Coalite No. 2-D.....	Do.....	Do.
Coalite No. 2-D. L.....	Do.....	Do.
Coalite No. 3-X.....	Class 1-a.....	Do.
Coalite No. 3-X. A.....	Do.....	Do.
Coalite No. 3-X. B.....	Do.....	Do.
Coal Special No. 1.....	Class 4.....	Keystone National Powder Co., Emporium, Pa.
Coal Special No. 2.....	Do.....	Do.
Coal Special No. 2-W.....	Do.....	Do.
Coal Special No. 3-C.....	Do.....	Do.
Collier No. 9.....	Class 1-a.....	Do.
Collier Powder No. 2.....	Class 4.....	Do.
Collier Powder No. 5.....	Class 1-a.....	Do.
Collier Powder No. 5-L. F.....	Do.....	Do.
Collier Powder No. 5 special.....	Do.....	Do.
Collier Powder No. 6 L. F.....	Class 4.....	Do.
Collier Powder No. X.....	Class 1-a.....	Do.
Detonite Special.....	Do.....	The King Powder Company, Cincinnati, Ohio.
Fuel-ite No. 1.....	Class 4.....	Burton Powder Company, Pittsburg, Pa.
Fuel-ite No. 2.....	Do.....	Do.
Fuel-ite No. 3.....	Class 1-a.....	Do.
Giant A low-flame dynamite.....	Class 2.....	Giant Powder Company (Cons.) Giant, Cal.
Giant B low-flame dynamite.....	Do.....	Do.
Giant C low-flame dynamite.....	Do.....	Do.
Giant Coal Mine Powder No. 5.....	Class 1-a.....	Do.
Giant Coal Mine Powder No. 6.....	Class 2.....	Do.
Giant Coal Mine Powder No. 7.....	Do.....	Do.
Giant Coal Mine Powder No. 8.....	Do.....	Do.
Guardian No. 2.....	Class 1-a.....	Independent Powder Company of Missouri, Joplin, Mo.
Guardian No. 3.....	Do.....	Do.
Hecla No. 2.....	Do.....	E. I. Du Pont de Nemours Powder Company, Wilmington, Del.
Kanite A.....	Class 1-b.....	W. H. Blumenstein Chemical Workx, Pottsville, Pa.
Meteor AXXO.....	Class 2.....	E. I. Du Pont de Nemours Powder Company, Wilmington, Del.
Mine-ite A.....	Class 4.....	Burton Powder Company, Pittsburg, Pa.
Mine-ite B.....	Do.....	Do.
Monobel No. 1.....	Class 1-a.....	E. I. Du Pont de Nemours Powder Co., Wilmington, Del.
Monobel No. 2.....	Do.....	Do.
Monobel No. 3.....	Do.....	Do.
Monobel No. 4.....	Do.....	Do.
Monobel No. 5.....	Do.....	Do.
Nitro low-flame No. 1.....	Class 4.....	Nitro Powder Company, Kingston, N. Y.
Nitro low-flame No. 2.....	Do.....	Do.
Polar C.....	Class 1-a.....	Potts Powder Company, New York, N. Y.
Titanite No. 3-P.....	Do.....	Waclark Titanite Explosive Company, Corry, Pa.
Titanite No. 4-P.....	Do.....	Do.
Titanite No. 7-P.....	Do.....	Do.
Trojan Coal Powder H.....	Class 3.....	Pennsylvania Trojan Powder Company, Allentown, Pa.
Trojan Coal Powder I.....	Do.....	Do.
Trojan Coal Powder J.....	Do.....	Do.
Tunnelite No. 5.....	Class 4.....	C. R. McAbee Powder & Oil Company, Pittsburg, Pa.
Tunnelite No. 6.....	Do.....	Do.
Tunnelite No. 6 L. F.....	Do.....	Do.
Tunnelite No. 7.....	Do.....	Do.
Tunnelite No. 8.....	Do.....	Do.
Tunnelite No. 8 L. F.....	Do.....	Do.
Zero No. 3.....	Class 1-a.....	Burton Powder Company, Pittsburg, Pa.

DEPARTMENT OF THE INTERIOR, U. S. BUREAU OF MINES.

Permissible Explosives Tested Between January 1 and August 16, 1912.

Brand.	Class designation	When used with detonators, preferably electric detonators, of not less strength than—	Manufacturer.
Black Diamond No. 2-A.....	Class 4.....	No. 6.....	Illinois Powder Manufacturing Co., St. Louis, Mo.
Black Diamond No. 3-A.....	Do.....	Do.....	Do.
Black Diamond No. 5.....	Class 1-a.....	Do.....	Do.
Coalite A.....	Do.....	Do.....	Potts Powder Co., New York, N. Y.
Coalite No. 2-M, L. F.....	Class 4.....	Do.....	Do.
Coalite X.....	Class 1-a.....	Do.....	Do.
Coalite No. 3-XC.....	Do.....	Do.....	Do.
Collier powder X, L. F.....	Do.....	Do.....	Keystone National Powder Co., Emporium, Pa.
Collier powder KNKN.....	Do.....	Do.....	Do.
Eureka No. 2.....	Class 2.....	Do.....	G. R. McAbee Powder & Oil Co., Pitts- burgh, Pa.
Fort Pitt mine power No. 1.....	Class 4.....	Do.....	Fort Pitt Powder Co., Pittsburgh, Pa.
Guardian coal power B.....	Do.....	No. 7.....	Independent Power Co., Joplin Mo.
Mine-ite A-2.....	Do.....	No. 6.....	Burton Power Co., Pittsburgh, Pa.
Mine-ite B-2.....	Do.....	Do.....	Do.
Monobel No. 6.....	Class 1-a.....	Do.....	E. I. Du Pont de Nemours Powder Co., Wilmington, Del.
Monobel No. 7.....	Do.....	Do.....	Do.
Titanite No. 6-P.....	Do.....	N. 7.....	Waclark Titanite Explosive Co., Corry, Pa.
Tunnelite B.....	Do.....	No. 6.....	G. R. McAbee Powder & Oil Co., Pitts- burgh, Pa.
Tunnelite C.....	Do.....	Do.....	Do.

Approved, August 26, 1912.

JOSEPH A. HOLMES, *Director*.

55210° —12

REPORT ON THE POWHATAN HUMIDIFIER.

The following is a report made by Mine Inspectors Wm. Nicholson and P. A. Grady, January 8th and 9th, 1912, after making a thorough examination of the apparatus for humidifying the air current of the Powhatan Mine, operated by the Powhatan Coal & Coke Company.

Colonel L. E. Tierney, General Manager of the Powhatan Coal & Coke Company, after considerable experimenting and research installed this apparatus in this mine for which, in the opinion of all connected with this Department, who have made an examination of same, should be given great credit for his interest in inventing and installing such an apparatus to safeguard the lives of men and the protection of property.

Bluefield, W. Va., January 10th, 1912.

HON. JOHN LAING, Chief, Department of Mines,
Charleston, W. Va.

DEAR SIR:—Pursuant to your instructions of January 4th, 1912, we made an examination of the apparatus for humidifying the air current of the Powhatan mine on January 8th and 9th, and also a thorough inspection of the mine to determine the effect of the humidifier had in making high humidity conditions in all of the air in every part of the entire area opened up.

The following is the result of our observations.

The humidifier is placed about 700 feet in on the intake of the mine. It consists of a series of radiating pipes three inches in diameter running about 70 feet in length. The whole consists of about 3000 lineal feet of three-inch pipe running in five vertical rows with ten horizontal pipes to the row. There is in all approximately 2250 sq. ft. of radiating surface in this apparatus. The inside ends of the pipes are fitted with small steam cocks so as to allow the escape of some of the steam into the air current. The amount of steam allowed to escape being based entirely on the amount of moisture necessary to be injected into the air current to produce the desired humidity condition in the air pervading the mine.

The condensation of water which takes place within the radiating coils is drained back into a concrete basin, from which it is picked up by a small pump and forced through German sprays into the air current of the mine. The temperature of this water forced through the sprays is about 85 to 90 degrees F. The condensed water from escaped steam is also led back to this concrete basin and pumped into the air current through the sprays. The general result achieved is that the intake air current is raised above the temperature of the mine, thus enabling it to hold much more moisture, and a large quantity of moisture is deposited over the roof, bottom and sides when this current comes in contact with the cooler surfaces of the mine, a condition somewhat similar to the high temperatures which we have during the summer months is brought about when a large quantity of moisture is deposited by the air coming in contact with the dew-point temperatures of the mine.

Before entering the mine, the thermometer reading on outside showed a temperature of 21 degrees F. with relative humidity reading of 100%. With this outside reading there was only entering the mine 6.77 lbs. or .813 gallons of moisture per minute in the air current.

After the air current had passed over the humidifier, we obtained a reading of 73 degrees F. with a relative humidity of 65%. The air current from this point on carried 32.78 lbs. of moisture per minute or 3.94 gallons, showing that 26.01 lbs. of moisture, or 3.122 gallons was being injected into the air current per minute and taken up by same at humidifier.

A reading of 56 degrees F., relative humidity 100%, was taken in the return near fan. This showed the total amount of moisture carried in the air current at this point of 37.01 lbs. per minute or 4.44 gallons, indicating that 4.23 lbs. or one-half gallon of natural moisture was being subtracted from the mine every minute.

The following readings were taken throughout the different sections of the mine:

Place Where Taken.	Dist. Traversed by Air				
	Dry Bulb.	Wet Bulb.	Humid. %	Current from Humidifier.	Condition.
Pillar work, 6½ left entry.....	58	58	100	2,400 ft.	Wet
At room 20 on No. 7 left entry.....	58	58	100	3,500 ft.	"
Last B'th, 8½ left entry.....	56	55	94	4,450 ft.	"
Last B'th 9 and 10 left entry.....	56	55	94	7,300 ft.	"
Last B'th 11 and 12 left entry.....	57	57	100	11,180 ft.	"
Last B'th 13 and 14 left entry.....	57	57	100	12,840 ft.	"
B. Main at 14 right entry.....	55	54.5	97	13,750 ft.	"
Last B'th 13 and 14 right entry.....	55	54.75	97	14,570 ft.	"
5th B'th above 10 right No. 20 room...	59	59	100	16,230 ft.	"
7 Rm. off 10 R. at 4th B'th.....	59	58.5	97	17,380 ft.	"
B. Main at 12 Right.....	57	57	100	18,130 ft.	"
5 Rm. off No. 9 R. 350 ft. up.....	59	58.75	97	18,830 ft.	"
B. Main 9 Right Diagonal.....	57	57	100	19,250 ft.	"
B. Main 7 and 8 Right entry.....	56.5	56.5	100	20,170 ft.	"
Return near fan.....	56.5	56.5	100	22,890 ft.	"

Barometric pressure at time of reading 28 inches.

The above table illustrates the actual effect produced on the air current where, in this particular test practically all of the air circulating through mine was passed over the humidifier and the whole area of the mine ventilated on one air circuit. The table shows the distance in feet that readings were taken from the humidifier on the air circuit.

Wherever coal slack was found in the mine, it was always found to be in amonst condition, and when picked up in the hand was found damp and plastic.

One important point to be mentioned in connection with a device of this kind, by maintaining a uniformly high relative humidity within the mine, the effect of a drop in the barometric pressure on the outside would have no effect on the inside of the mine, and would not occasion the liberating of a larger amount of gas, for the reason that a uniform pressure is maintained where the relative humidity is kept uniform, thus alleviating any uneasiness that might be felt due to changes in barometric pressure.

This method of keeping a mine in a damp condition, we believe to be far superior to any of the other methods in use, such as the water box and mule, the carrying of water to the different sections by means of pipe and hose or by the method of moistening the air by means of steam. By keeping this apparatus in operation the operator is assured that moisture is being put

into every part of his mine where the air current travels. The amount of moisture that is proper and necessary for the safety of the mine can be regulated and he does not have to place every dependence upon the human element. In using the obsolete water box and mule there is no assurance given that the dusty section will be made wet and if the water is put on dust in high and pitching places in a mine it quickly runs off, leaving the section dry and dusty as before.

The severest winter conditions existed at the time our readings were taken, and there was shown to be 37,452 lbs. or 4,496 gallons of water taken into the mine every 24 hours. To the practical operator it can be easily seen what the cost would be to put this amount of moisture into the mine with water boxes. The first cost of this apparatus is practically the only thing to be taken into consideration. The cost of maintaining and running it afterwards is a very small item, only 54 boiler H. P. was required in the operation of the apparatus at the time the examination was made.

The complaint is sometimes heard that by heating the intake air of a mine by radiation or steam it causes the roof to fall; this idea is erroneous for it is the varying difference in temperature of the air that causes the roof to contract and expand, thus making it fall. If a temperature near uniform is maintained this would not take place and the roof would remain safer the whole year around and less accidents from falls of roof would occur.

In installing an apparatus of this kind to insure safe conditions within a mine from dust explosions and variable barometric changes on the outside, an operator can compute the boiler horse power and the number of square feet of radiating pipe necessary, basing it on the amount of air entering the mine, using a safety factor by assuming the lowest temperature and humidity conditions that may exist at any time during the year.

We think that Col. L. E. Tierney, Manager of the Fowhatan Coal & Coke Company, should be given due credit for the research he has made along this particular line which goes to show his interest in the greater safeguarding of the lives of the men working in the mines and the protection of property.

Respectfully submitted,

WM. NICHOLSON.

P. A. GRADY.

Mine Inspectors, 11th and 12th Districts.

EXPLOSIONS.

EXPLOSIONS.

I regret to report that during the year ending June 30th, 1912, there were three mine explosions occurred within the boundaries of West Virginia. The first one occurred in the shaft of the Standard Pocahontas Coal Company, two miles west of Welch, W. Va., on the main line of the Norfolk & Western Railway, in McDowell County, at 11:30 P. M., August 1st, 1911, in which nine men were working night shift at the time, three of whom were instantly killed, and six others seriously injured, three of whom died a few days later.

The following are the names of the persons killed outright:

Fred Hill, negro, age 18 years, single, mucker at foot of shaft.

W. J. Arnold, American, age 30 years, married, machine runner.

Wm. Banister, negro, age 21 years, single, laborer.

The three who died a few days later were:

Charles Fields, negro, age 19 years, single, miner.

John Smith, negro, age 34 years, single, miner.

Henry Lilly, negro, age 25 years, single, miner.

The three who were seriously but not fatally injured:

Ossie Tucker, negro, age 20 years, single, laborer.

T. Howard, negro, age 36 years, married, miner.

John Williams, negro, age 24 years, single, laborer.

The coroner's jury failed to arrive at any conclusion after having investigated the cause of the deaths of these men in this explosion and it was insisted upon that they arrive at and make some report of their findings, but they utterly declined to do so.

The following is a report made by Wm. Nicholson, in whose district the explosion occurred, which as will be seen goes into details showing conditions as he found them after entering the mine promptly after the explosion occurred.

Following Mr. Nicholson's report on the explosion will be found a copy of certain recommendations made to this company June 7th and 29th, before the accident occurred.

Bluefield, W. Va., August 10th, 1911.

MR. JOHN LAING, Chief, Department of Mines,

Charleston, W. Va.

DEAR SIR:—I herewith submit to you my report of explosion at the Standard Pocahontas Coal Company's shaft, located two miles west of Welch, on the main line of the Norfolk & Western Railway, which occurred at 11:30 P. M., August 1st, causing the deaths of Wm. Bannister, John Hill, and W. J. Arnold, and seriously injuring six others, two of whom have since died.

Upon being notified of the explosion, I arrived on the scene at 9:30 A. M., August 2nd. Owing to the men working in the shaft, repairing brattice cloth to restore ventilation, I did not reach the foot of the shaft, which is 370 feet deep, until 12:30 P. M., knowing that all the bodies had been taken out and that at this time of the day, the air was insufficient to clean out the body of gas that had accumulated in both sides of the shaft.

The men worked on the brattice cloth up until 5:30 P. M. I returned to Welch for lunch. At 9 P. M., I returned to the shaft, hoping that the ventilation would be sufficient to clean out the body of gas so that I would be able to make an investigation, but the company could get no one to work that night to complete repairing the brattices in the shaft, so no investigation was made until the following day.

On the following day, I was assisted by Mr. Arthur Mitchell, Inspector of the Tenth District, and we commenced to make the investigation at 12:30 P. M., August 3rd. At this hour, explosive gases were encountered 12 feet from the foot of the shaft. We used a system of brattice cloth, which was put up temporarily so that we could reach the working face and make the proper investigations.

The concussion from the explosion had torn down all the brattice cloth in the entry and several feet up in the shaft. Very few props had been knocked down by the explosion, which held the brattice cloth in position to conduct the current of air to the working face.

At the working face, there was no evidence of any intense heat. Coke coal was found on the ribs, 15 feet from the face, which continued 25 feet. Beyond this point, there was no evidence of any intense heat.

I found five sticks of Collier powder 55 feet from the working face, two sticks of powder being in one cement sack and three in another. I found no electric detonators. The electric wires for lighting the mine, there being three lights in all, and the globe near the working face, I found 25 feet from the face, still unbroken. The brass part of the electric globe was left in the socket, several places were found on the wires which were not insulated.

The wires that were used for shooting purposes were in very poor condition, being bare in places for several feet, and splices were not insulated. 90 volt D. C. current was used for both lighting and shooting.

In this air shaft, which was not yet connected to the main shaft by 14 or 15 feet, very little explosive gas is liberated. After the place where the explosion occurred had been standing for 24 hours, with only 700 cubic feet of air in circulation, no gas was detected—the place was absolutely clear. The company's officials had never taken any air measurements in this shaft, nor had they ever reported any gas on the fire boss's report book on the outside.

On August 1st, there were seven men working on the day shift and eleven at night, including the pumper and the man on top. No mine boss was employed. Robert Smith was looking after one shift and John Smith was looking after the other. Both of these men are colored.

The ignition point of the explosion, whether caused by defective electric wires, defective electric lamps, or defective safety lamps, I do not know the cause, but I do know and say without any hesitation whatever, that there was an accumulation of gas which should not have been there if ventilation had been properly conducted to the working face.

For the prevention of a similar accident, I recommended to the Standard Pocahontas Coal Co., August 7th, 1911, for the safety of lives and property, that this company comply with the recommendations furnished them on June 7th and June 29th, a copy of which is annexed to this report.

Also, I recommended on August 7th, 1911, that they have not less than

2500 cubic feet of air at the end of all brattice cloth at working faces. Also, that they comply with the mining laws of West Virginia in every respect.

I enclose sketch with this report showing the development of the mines, the number of cubic feet of air used in making the investigation, and showing the location of the bodies found.

Yours truly,

WM. NICHOLSON,

Mine Inspector, Eleventh District of West Virginia.

Welch, W. Va., June 7th, 1911.

MR. J. M. VEST, Sup't. Standard Poca. Coal Co.,
Welch, W. Va.

DEAR SIR:—I recommend that locked safety lamps must be used till ventilation is restored with fan power.

Trusting you will comply with the above,

Yours truly,

WM. NICHOLSON.

D. M. I.

Bluefield, W. Va., June 29th, 1911.

MR. J. M. VEST, Supt. Standard Pocahontas Coal Co.,
Welch, W. Va.

DEAR SIR:—The Mine Department of West Virginia for the past two years has been holding a series of examinations to determine the qualifications of mine foremen and fire bosses. It is the desire of the Mine Department that all mine foremen and fire bosses must hold a certificate of competency and in all shaft mines where gas is generated, the mine foreman must hold a first class certificate.

I trust that you will employ a mine foreman at your shaft that has passed the qualifications of the Mine Department of West Virginia. It is absolutely necessary that you comply with the above.

Yours truly,

WM. NICHOLSON.

Mine Inspector, Eleventh District of West Virginia.

The second explosion occurred in the Bottom Creek Mine November 20th, 1911, operated by the Bottom Creek Coal & Coke Company, in McDowell County, W. Va., in which eighteen persons lost their lives and three others were badly but not seriously injured. Details showing the names of the persons killed and injured, will be found under the head of "Accidents" in this report.

After conducting, before a coroner's jury a thorough investigation as to the cause, etc., of this accident, the jury having retired to consider their verdict, returned in a short while and handed the coroner their verdict, which is in the words and figures following, to-wit:

STATE OF WEST VIRGINIA, MCDOWELL COUNTY. TO-WIT:

An inquisition taken at Vivian, in the county of McDowell, on the 20th day of November, 1911, before Dr. J. H. McCulloch, coroner of said county, upon the view of the bodies of Burton Moore, Guy Bratcher, Robert Hubbard,

Dan Campbell, Henry Hubbard, W. H. Henderson, Tarbin Williams, E. F. Harvey, C. L. Brewer, Martin Golish, Frank Golish, Phil Zalenic, Joe Vanco, Frank Mallica, Steve Arouchik, Frank Hallavica, Gregor Amola and Phil Andish, there lying dead. The jurors sworn to inquire when, how and by what means the said named persons came to their death, upon their oaths say:

We, the jury, find the above named persons came to their death by an explosion of gas in abandoned room No. 7, on No. 1 entry, of the Bottom Creek Coal & Coke Co.'s mine at Vivian, McDowell county, W. Va., on November 18th, 1911, at about 11 o'clock A. M., and we further find that said gas was ignited by an open lamp carried by some member of an engineering corps then working in room No. 7 of entry No. 11 of said mine.

In testimony whereof, the said coroner and jurors hereto set their hands.

J. L. DEATON, Juror,
T. C. GRIFFITH, Juror,
GEO. F. STROTHER, Juror,
C. B. SMITH, Juror,
H. H. CRUTCHFIELD, Juror,
A. E. HARDIMAN, Juror.

The following is a report made November 22nd, 1911, by District Mine Inspectors E. A. Henry, James Martin, Wm. Nicholson, and P. A. Grady, after having thoroughly investigated the explosion and made a thorough examination of the mine.

Vivian, W. Va., Nov. 22nd, 1911.

MR. JOHN LAING, Chief, Department of Mines,
Charleston, W. Va.

DEAR SIR:—We, the undersigned District Mine Inspectors of West Virginia, beg to submit to you the following report of the mine explosion which occurred in the No. 1 Mine of the Bottom Creek Coal & Coke Company, located at Vivian, West Virginia, on November 18th, at about 11 A. M., and in which eighteen persons lost their lives and three were badly injured.

After making a thorough examination of the workings of the mine, we have come to the conclusion that the explosion occurred in an abandoned room, known as No. 7 on the No. 11 entry, and was caused by the ignition of a body of fire damp by a naked light, carried by a member of the Crozer Land Company engineering corps. All evidence left after the explosion and information received from a member of the engineering corps, who was badly burnt, but who fortunately saved his life by being on the outside of this room and having forethought to cover his head with his coat, which protected him somewhat from the flame, and by great exertion reaching a point where the air was fresh.

This engineer informed us that they went into the mine on that morning for the purpose of measuring the work advanced since their last visit. They started in at the head of the entry measuring all the work back to room seven, then two of the party started up this room with the tape and reached a point about 240 feet in, when they came in contact with this body of fire damp.

This was a local explosion, and confined itself from the point of ignition out on to the entry, extending a distance of 300 feet toward the face of the

entry and 800 feet in the opposite direction and the only damage done by the force of the explosion, was the destruction of several stoppings which short-circuited the air current. The men working inside this point, feeling the concussion, attempted to make their way out the entry, and were overcome by the after-damp, with the exception of one who, with great effort, succeeded in reaching a place where his cries for help were heard by the rescuing party. At the inquest held over the dead bodies, the testimony given by this man was interesting to hear, of his experience in saving his life. The explosion occurred on the return air current, and out-by from the section where these men were at work, it might have been possible that, had they at once proceeded to the air course, which was the intake current, they might have saved their lives. Some of the men who did work on the air course which was the intake, made the mistake of crossing over to the entry and out where the explosion occurred, where they were overcome by the after-damp. It is quite evident that those engineers in entering the room passed a danger signal, and if not, they should at least have found out the condition of this place as to safety from the mine foreman or fire boss. At the same time, had the mine foreman or fire boss seen to it that the check between No. 6 and 7 rooms had been kept in proper condition, this fire damp would not have accumulated.

The fact that this explosion confined itself to fire-damp only, and no evidence was afterwards found that coal dust could have entered into it, goes to prove the mine was in a damp condition, and by hygrometric readings taken after the explosion, over the entire mine, show the air current approaching a point of complete saturation, which we believe is caused by the introduction of a ten-inch exhaust steam line into the intake air current.

Abundant ventilation is furnished by a 16-foot Capell fan, and is split in compliance with the mining law and well distributed to the working faces. Overcasts and stoppings are built of substantial material. Break-throughs are cut at the required distance, and the mining law in general is well complied with.

Respectfully submitted,

(Signed) ~~EARL~~ A. HENRY,

Inspector Fifth Dist.

JAMES MARTIN,

Inspector Seventh Dist.

WM. NICHOLSON,

Inspector Eleventh Dist.

P. A. GRADY,

Inspector Twelfth Dist.

The third explosion occurred in the Jed mine, operated by the Jed Coal & Coke Company, in McDowell County, W. Va., at 8:00 A. M., March 26th, 1912, in which eighty lives were lost.

A thorough examination was made by coroner's jury and this Department, and the following is the verdict rendered by said coroner's jury:

STATE OF WEST VIRGINIA, MCDOWELL COUNTY, TO-WIT:

An inquisition taken at Welch, in the County of McDowell, on the 31d day of April, 1912, before Dr. J. H. McCulloch, coroner of said county, upon

the view of the body of Frank Hill, there lying dead, and others killed at the same time, same place and by same means, to-wit: George Smith, James Haynes, Steve S. Szatmari, R. E. Pennington, Jacob Sowsolski, Samuel B. Jefferson, Steve Howat, Berta Selidia, Robert Gillispie, Adam Mimsick, Steve Motto, Giovanni Caparali, Steve Yankevich, Anibale Giorgi, Romeo Giorgi, Andrew Zaveczi, Frank Golya, Alissandra Tarantella, Bruno Chiricosta, James S. Parsons, William Bell, Lee Gilmer, Victor, Steele, Volley Lash, Frank Rice, I. C. Gilman, E. D. McClure Will Harris, Green Terry, William Greene, Jack Chandler, James Leeper, Sam Hampton, Henry Harris, P. D. Saunders, W. J. Woodward, Sol Agnew, Houston Jones, Willie Denton, Alec. Sabl, Sterling Martin, Ed. Johnson, Kalman Papp, John Agach, Emidis Flex, Rinaidi Flex, Paul Martee, Nich Golya, Sr., Mattel Petta, Domenico Perri, Settimilix Flex, Mike Galis, Alex. Kissovick, Frank Mahar, Ted Swabey, John Gregly, Joe Buroazi, Francisco Spagnuola, Carmelo Spagnuola, Peter Sowalski, Mike Williams, Paul Bodis, Alex. Solaski, Emmett Terry, James Cipery, Mike Lynyor, Mike Cogosky, Marcu Agnew, Wilson Ferryall, there lying dead. The jurors sworn to inquire when, how and by what means the said Frank Hill and those enumerated above came to their death, upon their oaths say that the above named parties came to their deaths at about 8:00 o'clock A. M., on March 26th, 1912, in the mine operated by the Jed Coal & Coke Company at Jed, W. Va., as a result of a gas and dust explosion, the origin of which was from an accumulation of gas near the face of No. 8 room off No. 1 butt left entry, No. 2 main, the cause of ignition of said gas we are unable to ascertain from the evidence submitted.

In testimony whereof, the said coroner and jurors hereto set their hands.

GEORGE WOLFE, Juror,
H. D. PINKNEY, Juror,
G. W. DIXON, Juror,
C. D. BREWSTER, Juror,
C. C. HUFFMAN, Juror,
T. F. HENRITZ, Juror,
J. H. McCULLOCH, Juror.

We also quote below report made in this case by inspectors E. A. Henry, James Martin, R. Y. Muir, L. B. Holliday, Wm. Nicholson and P. A. Grady, after making a thorough examination of the mine as soon as it could be explored after the explosion occurred.

HON. JOHN LAING, Chief, Department of Mines,
Charleston, W. Va.

DEAR SIR:—We herewith respectfully submit to you the following report of the explosion that occurred in the Jed mine of the Jed Coal & Coke Co., in McDowell, at about 8 A. M., on March 26th, 1912, in which 80 lives were lost.

This mine is located about two miles from Welch on the Tug Fork Branch of the N. & W. Ry., operating the No. 3 Pocahontas seam, which averages in thickness in this mine about 5 feet 4 inches, overlaid with a draw-slate of from 14 to 30 inches in thickness. This draw-slate requires careful timbering to hold it in the rooms. On the entries it is taken down, except in a few sections. The seam is reached by two shafts 282 feet deep, one 14x27 inches

cross section, which is the hoisting shaft and intake air shaft, the other being used as the upcast and second opening of the mine, it being equipped with stairways.

The mine was being developed, as can be seen by the map, by two sets of main entries, consisting of four entries to each set; from which the room entries are tunned. The ventilating of the mine consisted of two separate split sand was produced by a Guibal fan 25 feet in diameter, which was giving at the time the last inspection was made, 125,000 cu. ft. of air per minute, with 75 R. P. M., and with a water gauge of one and one-half inches.

At the time the explosion occurred, we were about to descend the shaft of the Middle States C. & C. Co., at Hughes, five miles away. When informed of the explosion, we secured horses and reached Jed shortly after the explosion occurred. From the time of the explosion to April 3rd, we assisted in recovering the bodies and in making an investigation to determine the causes of the explosion.

In recovering the bodies and in making the investigation of the mine, we were accompanied by Inspectors E. A. Henry, Fifth District, James Martin, Seventh District, R. Y. Muir, Eighth District, L. B. Holliday, Ninth District, and Arthur Mitchell, Tenth District. It is our opinion and the opinion of these inspectors, excepting Mr. Mitchell, who did not accompany us on our investigation, that the explosion originated in the vicinity of 8, 9 and 10 rooms on first butt entry off No. 2 main, and was caused by the ignition of a body of fire-damp, which in turn, distilled sufficient gases from the coal dust present to propagate it almost over the entire mine. All the evidence in the mine goes to show that the explosion started in the No. 2 main section and traveled over to the No. 1 main section, exhausting itself before it came to the No. 2 butt entry off No. 1 main. The workmen in this entry came out uninjured by going out through the intake air current.

This mine generates explosive gas freely and complaints have been made frequently by inspectors on both joint and single inspections of the amount of dust present.

In 1908, on account of the amount of gas being generated, the Chief of the Department of Mines ordered the mine closed until it would be put on the use of locked safety lamps exclusively. The management of the mine applied to the Circuit Court by petition for an order directing the mine to be re-opened and the Court, after hearing the testimony of the witnesses for the two sides, ordered the mine to be re-opened with the use of naked lights. An analysis made of the return air at the foot of the upcast shaft at that time showed that in 70,000 cu. ft. of air returning from the mine per minute, there was 7/10 of one per cent of methane, showing that the mine gave off 490 cubic feet of pure methane gas per minute. The mine at the present time has about four times the amount of development it had then, and the gas now being generated is given off from a much larger area.

On January 29, 1912, a sample of the air in the upcast shaft was secured by us and the analysis which was made of it showed 4/10 of one per cent of methane present. With 125,000 cu. ft. of air passing per minute, this would show that the mine was giving off 500 cu. ft. of methane gas per minute. These analyses go to show that it takes a much greater area to generate at the present time the same amount of gas as was given off four years ago, and

it can, therefore, be seen that each working place is giving off much less. This, we attribute to the fact that the development of the mine is extending in a direction where this seam of coal has less cover and where it is known to contain less gas.

The day previous to the explosion, the mine quit work at 2 P. M., on account of the shortage of railroad cars. This left mine cars standing in the working places of the mine. When the men entered for work in the morning of the explosion, there was no necessity for the miners going directly to the working faces. In the first butt off No. 1 main, four bodies were found near a tool box near the mouth of No. 8 room. The closest any of the bodies were found to the working faces in this section were those in No. 8 room, which were found about 40 feet back from the face. To ventilate No. 1 butt entry off No. 2 main a door is placed on the main entry which turns the air into the air-course of No. 1 butt up to the last cross-cut, from which point it circulates back out the entry and rooms. Leaving this door open for any length of time, would cause an accumulation of gas in these workings. It has been mentioned that the mine has a bad draw-slate roof. The stoppings in the cross-cuts between the room entries and air courses are constructed of plank, and a fall of draw-slate could break one of them down, causing a short circuit of the air and the accumulation of a body of gas. It is necessary in this mine to conduct the air current to the working faces by means of check-doors on entries, stoppings in room cross-cuts and brattice from the last cross-cut to the face. The breaking down of any of these three would cause gas to accumulate. It is quite evident that a body of gas accumulated from some one of the causes above mentioned, and it was either ignited by accumulating back to where the men were sitting with naked lights or the men working in No. 8 room walked up into it with naked lights on their heads.

It is our opinion that the amount of gas ignited could have accumulated from the time the fire boss made his examination until the explosion occurred.

The explosive used for shooting in the mine is known as Collier X, manufactured by the Keystone Powder Co. All shots in the mine were fired by shot firers and with the exception of a few cases all shots were fired electrically. It is a permissible powder and the amount fired in any one hole does not exceed two pounds, and which, if fired that morning, would not give off sufficient flame to ignite the dust. The assumption that the explosion could have been initiated by a blown-out shot is discarded entirely by us for there is no evidence to show that any shots had been fired in that section on the morning of the explosion and the mine foreman stated that the machines had not under-cut that section the night before.

We firmly believe that if the dust in this mine had been thoroughly wet the explosion would have confined itself to the section in which it originated. From January 19, 1911, to February 1, 1912, there were eight regular inspections made of this mine. On six of these inspections the presence of coal dust was complained of. Recommendations were made that the coal dust be always kept wet and to help in doing this, steam was recommended to be turned into the intake air-ways of the mine. In our inspection made on January 29, 1912, the mine was considered to be in a dangerously dusty con-

dition and nearly all of the miners were ordered from the working places of the mine which practically closed the mine down for that day, and written recommendations were left that work should not be resumed in the sections complained of until the coal dust had been made wet. Returning to the mine on February 1st, 1912, we found this recommendation complied with.

In comparing this explosion with other explosions that have occurred in the state, in which dust was an important factor, it is noticeable that it did not attain the same violence as some of the other dust explosions. The reason for this, we attribute to the falls of slate in the air courses and worked-out rooms. It is held in these places by posting, when the coal is being mined, but falls in a short time afterward, covering up all dust on the bottom. The explosive wave in passing over these numerous falls was checked on account of less dust existing. It attained sufficient violence, however, to blow out the overcasts and the masonry stoppings on the main entries to within a short distance of the shaft.

It is an evident fact that the method pursued to keep the dust in this mine wet was ineffective. By using the water box and mule, too much dependence had to be placed in the human factor, with the result that it could oftentimes be neglected. If the intake air current of the mine had been raised to a higher temperature than the mine and moisture injected into it so that the air current at all times could serve as a vehicle to carry moisture to all parts of the mine, as it is done at several mines in the state, or, if pipes were laid into the workings so that sufficient water could be had at all places to wash down the roof, sides and bottom, we believe that an explosion so general as this one would not have occurred.

Respectfully submitted,

WM. NICHOLSON,

P. A. GRADY,

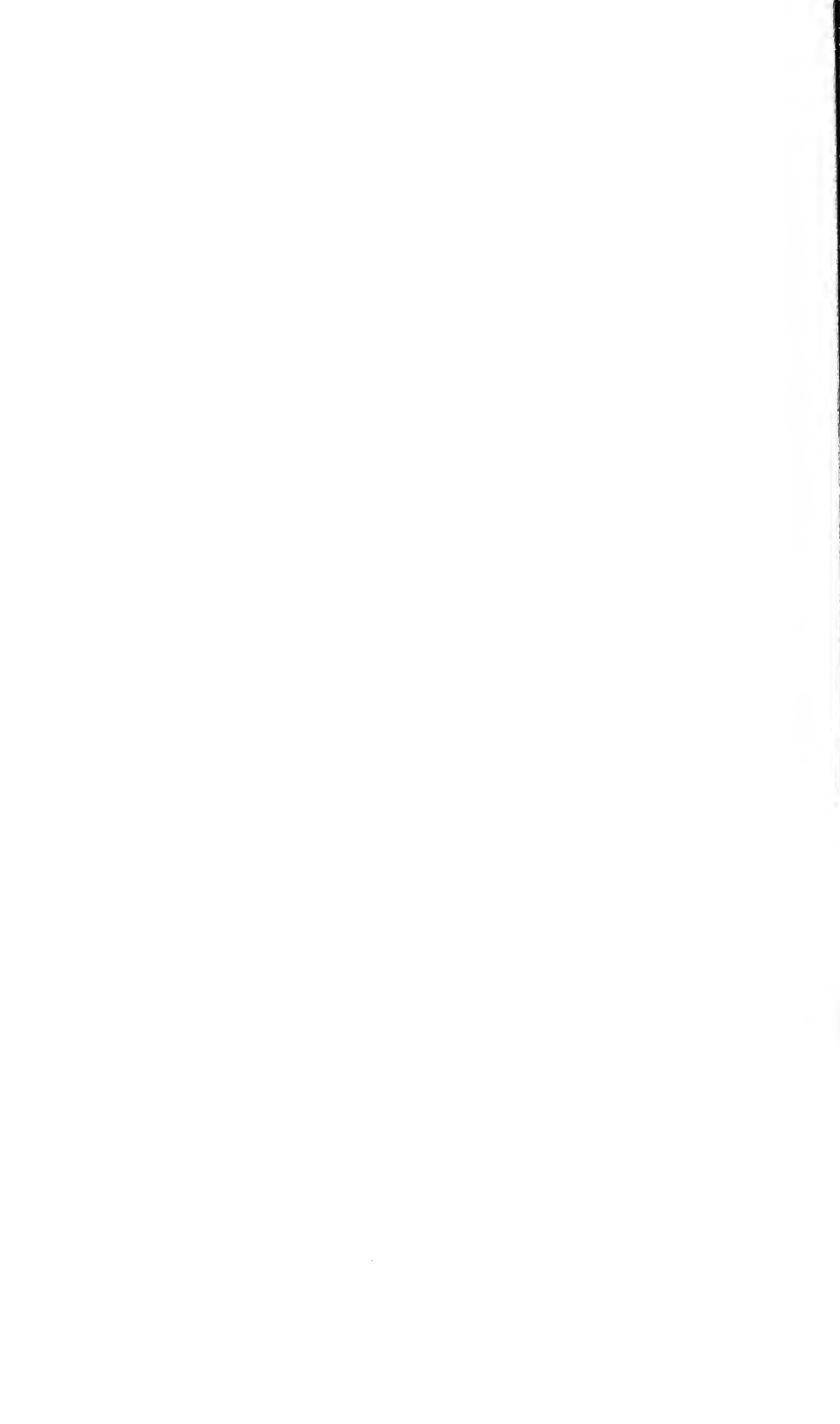
Mine Inspectors, 11th and 12th Dists.

An exact copy of the evidence given the coroner's jury and the investigations made by this Department in each of the above cases is on file in the office of the Chief of Department of Mines.

SECOND SECTION



STATISTICAL



THE FOLLOWING TABLE EXHIBITS A COMPARATIVE STATEMENT AND SUMMARY OF THE ANNUAL
REPORT FOR 1911 AND 1912.

	For Year Ending June 30th, 1912	For Year Ending June 30th, 1911	Increase of 1912 Over 1911	Decrease of 1912 Under 1911
Number of counties in which coal is mined on a commercial scale.....	31	33		2
Number of firms operating on a commercial scale.....	457	424		33
Number of openings of all kinds subject to the mining law.....	817	790		26
Number of tons (2,240 lbs.) of pick mined from commercial mines.....	28,814,581	27,341,113		1,473,468
Number of tons (2,240 lbs.) of machine mined coal from commercial mines.....	30,467,193	26,392,073		4,075,120
Total number of tons (2,240 lbs.) of coal from commercial mines.....	59,281,774	53,733,186		5,548,588
Total number of tons (2,240 lbs.) of coal from commercial mines.....	300,000	300,000		
Estimated number of tons of coal from small mines (Tons of 2,240 lbs.).....	59,581,774	54,033,186		5,548,588
Total number of tons of coal from all mines (Tons of 2,240 lbs.).....	2,955,581	5,043,721		1,088,143
Number of tons of coal converted into coke (Tons of 2,240 lbs.).....	1,992,697	2,694,047		701,350
Number of tons of coke manufactured (Tons of 2,000 lbs.).....	56,602,685.30	52,952,522.28		
Total Value of coal at mines.....	3,006,781.57	5,037,867.89		
Total Value of coke at mines.....	35	98		
Value of ton of coal at the mines (Tons of 2,240 lbs.).....	1.81	1.87		
Value of ton of coke at the ovens (Tons of 2,000 lbs.).....	2.307	2.158		
Number of mining machines in use.....	6,957	9,019		
Average number of coke ovens in use.....	224	194		
Number of days mines were in operation.....	140	179		
Number of pick miners employed in commercial coal mines.....	21,879	21,247		
Number of machine operators and miners employed in commercial coal mines.....	21,607	20,697		
Number of underground laborers in commercial coal mines.....	13,271	15,888		
Number of outside employees connected with the commercial coal mines.....	10,461	9,994		
Number of coke employees.....	2,297	2,868		
Total number of men employed at the commercial coal mines and coke ovens.....	69,611	70,644		
Number of men killed.....	409	352		
Number of men injured non-fatally.....	810	819		
Number of men employed per each man killed.....	170	213		
Number of men employed per each man injured.....	83	86		
Number of tons of coal mined in commercial mines per each fatality.....	144,943	161,847		
Number of tons of coal mined in commercial mines per each non-fatality.....	70,573	65,608		
Number of wives left widows.....	172	133		
Number of children left fatherless.....	425	365		
Acres of coal worked out.....	11,210.67	10,801.83		
Tons of coal produced in commercial mines per miner (Pick and Machine miners included.).....	1,498	1,404		
Average earnings of each pick miner per year.....	618.52	570.48		
Average earnings of each machine miner per month.....	51.54	47.54		
Average price per ton of coal (Tons of 2,240 lbs.) for mining run of mine coal.....	.47	.44		

TABLE SHOWING PRODUCTION OF COAL AND COKE FOR THE
YEARS 1883 TO 1912, INCLUSIVE.

*YEARS	COAL (Tons of 2,240 lbs.)	COKE (Tons of 2,00 lbs.)	YEARS.	COAL (Tons of 2,240 lbs.)	COKE (Tons of 2,000 lbs.)
1883.....	2,805,565	190,889	1898.....	14,294,865	1,742,256
1884.....	3,000,000	182,000	1899.....	16,250,150	1,950,179
1885.....	3,008,091	187,619	1900.....	18,886,911	2,496,107
1886.....	3,213,093	228,623	1901.....	20,290,991	1,932,912
1887.....	4,207,039	481,477	1902.....	23,359,083	2,249,744
1888.....	4,799,611	517,317	1903.....	22,913,698	2,483,376
1889.....	4,663,857	306,716	1904.....	26,984,715	2,276,451
1890.....	5,643,946	892,490	1905.....	31,503,029	2,738,777
1891.....	7,281,427	1,208,418	1906.....	37,403,474	3,534,314
1892.....	7,777,570	1,333,439	1907.....	40,040,311	3,828,649
1893.....	9,758,991	1,090,909	1908.....	39,367,010	2,978,263
1894.....	9,427,028	1,067,156	1909.....	41,671,403	3,096,561
1895.....	9,878,099	1,203,657	1910.....	52,923,708	4,217,381
1896.....	12,062,468	1,594,691	1911.....	54,033,186	2,694,047
1897.....	11,705,829	1,374,497	1912.....	59,281,774	1,992,697

* Calendar years 1883 to 1887, inclusive. Since 1887 the Coal and Coke statistics have been given for the fiscal year ending June 30th.

TABLE SHOWING THE COKE PRODUCTION BY COUNTIES FROM 1897 TO 1903, INCLUSIVE.

Tons of 2,000 pounds.

COUNTIES.	1897	1898	1899	1900	1901	1902	1903	1904
Barbour.....		1,350	5,980	12,579	12,666	15,682	20,991	19,128
Fayette.....	329,089	394,052	554,999	481,699	442,411	515,398	437,090	434,919
Harrison.....		5,419	5,871	15,994	5,190	16,572	62,392	621
Kanawha.....	20,132	21,578	10,983	32,665	30,722	29,722	25,789	9,547
Marion.....	142,043	149,060	155,985	298,119	118,285	216,451	282,924	102,416
McDowell.....	567,070	731,681	923,166	1,070,083	953,702	929,433	1,016,988	1,170,200
Mercer.....	115,522	109,061	192,962	207,277	167,769	175,083	167,567	190,132
Monongalia.....	2,778	12,337	5,204	17,077	5,777	19,948	30,569	22,999
Preston.....	19,567	28,450	34,023	46,250	6,500	18,930	34,627	27,611
Raleigh.....	18,454	20,007	20,398	15,460				
Randolph.....				3,223	13,498	38,845	120,387	77,077
Tucker.....	159,842	229,261	140,638	295,731	176,392	279,680	284,122	221,801
Taylor.....								
Upshur.....								
Total.....	1,374,497	1,742,256	1,950,179	2,496,107	1,932,912	2,249,744	2,483,376	2,276,451

TABLE SHOWING THE COKE PRODUCTION BY COUNTIES FROM 1905 TO 1912, INCLUSIVE.

Tons of 2,000 pounds.

COUNTIES.	1905	1906	1907	1908	1909	1910	1911	1912
Barbour.....	11,967	17,643	34,030	44,359	27,203	31,898	19,776	1,475
Fayette.....	430,163,	614,428	615,577	415,425	525,154	713,540	474,481	370,517
Harrison.....		768	22,390	1,092	275	7,116		
Kanawha.....	19,993	31,727	18,287	12,124		21,908	5,466	
Marion.....	127,850	171,621	233,700	105,743	65,213	93,865	45,628	81,147
McDowell.....	1,380,805	1,699,426	1,744,819	1,681,884	1,733,479	2,235,822	1,358,800	928,545
Mercer.....	267,697	318,357	313,117	219,597	220,681	310,551	248,104	198,200
Monongalia.....	42,802	58,264	113,031	76,386	117,254	143,586	130,935	55,994
Preston.....	79,757	142,236	222,846	138,644	175,915	293,415	198,231	196,031
Raleigh.....				497				
Randolph.....	146,243	231,616	244,054	129,273	128,401	183,565	130,694	119,513
Tucker.....	231,500	253,492	262,951	149,229	97,684	173,840	76,436	40,710
Taylor.....			1,747		5,302	7,820	2,893	6,452
Upshur.....			2,100	4,010				
Nicholas.....						615	2,603	3,113
Totals.....	2,738,777	3,534,314	3,828,649	2,978,263	3,096,561	4,217,381	2,694,047	1,992,697

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1888 TO 1897, INCLUSIVE.

(Tons of 2,240 pounds.)

COUNTIES	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897
Barbour										31,658
Brooke	17,108	19,203	32,857	33,999	35,046	29,375	7,736	50,013	49,623	42,198
Fayette	1,322,430	989,276	1,302,355	1,737,617	1,564,579	2,350,250	1,195,102	2,162,090	3,253,547	2,903,061
Hancock										35,838
Harrison	113,030	111,440	128,964	113,268	142,960	248,099	275,297	204,412	155,772	221,249
Kanawha	982,310	976,396	1,021,386	1,209,386	1,175,371	1,210,749	1,113,626	1,078,253	1,088,737	1,042,745
Logan							52,673	40,610		
Marion	253,675	245,899	406,900	722,594	903,896	958,296	1,186,542	1,198,336	1,219,617	1,368,082
Marshall	59,172	84,606	110,418	118,242	166,893	110,530	84,037	137,762	148,128	162,396
Mason	85,870	126,797	129,744	116,598	123,323	141,104	92,764	171,074	101,418	111,535
McDowell		245,760	504,222	704,871	1,100,882	1,876,838	2,340,581	2,440,531	2,896,013	2,617,917
Mercer	762,645	744,803	744,463	1,210,723	1,175,141	1,196,374	886,942	865,379	1,308,417	873,300
Mineral	408,618	433,365	512,217	623,067	473,862	557,488	489,808	614,780	554,492	537,139
Mingo		6,850	28,000	46,100	70,002	97,995	62,125	95,279	111,800	267,789
Monongalia								47,653	52,080	31,288
Ohio	137,678	159,064	92,487	80,738	82,564	48,681	49,821	88,691	122,106	95,378
Preston	147,220	134,925	159,326	134,467	82,089	166,618	39,936	52,385	116,361	120,211
Putnam	135,100	107,325	183,184	156,856	154,962	197,733	148,474	122,057	161,555	131,522
Raleigh							48,365	81,762	89,279	65,701
Randolph						937				
Taylor	66,439	177,901	68,403	83,851	74,000	68,928	72,229	86,536	43,469	179,397
Tucker	48,256	79,647	219,087	189,650	369,320	638,950	418,865	316,345	523,624	647,666
Wayne					55,920	21,839	40,720	21,101	2,000	
Small Mines									125,000	133,429
Totals	4,799,611	4,663,857	5,643,946	7,281,427	7,777,570	9,758,991	9,427,028	9,878,099	12,062,468	11,705,829

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1898 TO 1904, INCLUSIVE.

(Tons of 2,240 pounds.)

COUNTIES.	1898	1899	1900	1901	1902	1903	1904
Barbour	48,600	63,275	73,041	226,047	394,768	525,924	690,897
Brooke	56,793	63,176	61,396	65,904	55,857	24,266	37,804
Braxton							
Boone							
Clay	3,969,266	4,446,469	4,547,002	5,375,702	5,724,882	4,075,324	2,860 5,650,217
Fayette						28,489	113,969
Grant							
Gilmer							
Greenbrier							
Hancock	42,870	39,440	47,013	30,357	38,085	70,405	69,700
Harrison	271,554	413,150	647,430	1,088,715	1,062,141	2,108,336	2,445,202
Kanawha	1,213,116	1,293,068	1,456,890	1,727,115	1,863,386	1,878,732	2,792,078
Lancaster					12,053	53,330	31,744
Lewis							
Logan	1,639,625	2,392,983	2,925,907	2,674,553	3,172,194	2,668,914	2,785,350
Marion	165,874	233,800	212,176	199,633	201,179	279,276	345,273
Marshall	109,204	106,867	85,367	98,427	113,327	102,282	89,009
Mason	3,183,529	3,516,668	4,142,102	4,219,251	4,734,199	5,249,913	5,524,376
McDowell	1,044,379	1,141,258	1,046,937	1,052,153	1,104,523	1,274,003	1,274,070
Meigs	510,757	554,286	562,667	513,772	552,181	514,582	467,693
Mineral	383,280	530,294	466,695	501,410	635,115	864,464	1,153,013
Mingo	68,807	56,793	82,148	75,589	130,371	148,074	194,540
Monongalia					12,199	7,645	25,723
Nicholas					148,852	129,888	101,207
Ohio	96,912	119,960	96,610	115,830	449,528	574,741	689,139
Preston	169,044	277,173	403,610	134,713	449,528	574,741	689,139
Putnam	128,851	164,004	203,449	125,321	208,712	178,904	295,914
Raleigh	79,315	93,370	68,390	102,089	272,106	244,088	406,226
Randolph	31,975	103,207	103,207	167,883	265,687	388,487	356,531
Taylor	109,532	249,103	376,030	383,223	415,502	264,524	234,502
Tucker	813,497	490,038	1,098,874	938,304	1,011,435	1,078,997	1,037,758
Upshur							
Wayne							
Wyoming							
Small Mines							
Totals	14,294,865	16,350,150	18,886,941	20,290,991	23,359,083	22,913,698	26,984,715

TABLE SHOWING THE COAL PRODUCTION BY COUNTIES, FROM 1905 TO 1912, INCLUSIVE.

(Tons of 2,240 pounds.)

COUNTIES	1905	1906	1907	1908	1909	1910	1911	1912
Barbour.....	556,158	638,253	776,245	829,046	735,033	895,472	792,298	756,395
Brooke.....	183,803	375,312	526,997	438,284	449,047	433,600	608,087	680,192
Brown.....			55,774	91,763	93,024	114,422	175,846	203,430
Boone.....					3,451	56,366	69,305	329,179
Clay.....	60,455	66,087	60,252	42,461	25,797	36,306	92,063	181,963
Fayette.....	6,738,343	7,625,839	7,277,297	6,851,271	7,597,747	9,389,578	9,019,395	8,812,058
Grant.....	167,053	228,837	271,542	242,442	177,506	217,490	221,462	188,907
Gilmer.....			312	6,697	14,740	32,265	35,029	57,041
Greenbrier.....				31,978	6,066	21,688	48,819	52,858
Hancock.....	58,029	55,557	78,280	66,511	46,756	75,884	65,207	
Harrison.....	2,560,905	3,030,737	3,343,319	3,168,042	3,005,689	3,708,123	3,974,058	4,520,344
Kanawha.....	3,126,638	4,086,102	4,696,101	4,523,739	4,136,213	5,754,378	5,753,470	5,606,522
Lincoln.....	7,695	15,801	17,589	25,064	49,354	48,237	65,043	
Lewis.....			5,328	22,640	13,780	20,906	3,684	40,057
Logan.....	127,616	346,228	740,007	1,215,039	1,900,063	2,213,372	2,213,372	3,243,033
Marion.....	3,251,999	3,629,805	3,619,764	3,440,666	3,733,765	4,210,622	4,084,822	4,893,652
Marshall.....	380,666	411,061	560,427	369,189	233,848	475,434	509,850	664,393
Masson.....	77,846	108,420	93,211	109,738	106,802	145,180	209,807	139,877
McDowell.....	6,810,730	7,808,524	8,123,699	8,515,689	9,415,069	12,189,200	11,915,763	13,768,077
Mercer.....	1,738,330	2,025,490	2,009,522	1,823,674	2,108,293	2,542,867	2,533,728	2,783,866
Mineral.....	505,171	540,147	607,172	622,295	745,658	858,672	615,059	655,941
Mingo.....	1,375,233	1,719,233	1,897,100	1,714,807	1,617,881	2,045,430	2,036,223	2,374,563
Monongalia.....	178,752	196,074	292,596	271,843	235,816	414,962	454,219	382,164
Nicholas.....	51,524	50,921	57,412	61,806	40,556	59,445	98,257	16,135
Ohio.....	91,752	101,768	136,350	143,608	158,327	232,975	301,811	374,395
Preston.....	651,122	827,772	1,079,692	874,786	654,333	1,033,902	888,202	841,801
Putnam.....	310,576	463,341	401,413	424,424	378,420	438,226	529,588	506,470
Raleigh.....	661,180	823,666	1,104,676	1,259,420	1,797,812	2,347,721	3,335,417	4,581,776
Randolph.....	416,534	569,443	669,350	545,803	468,206	700,290	788,662	716,632
Taylor.....	252,161	398,563	416,138	396,358	437,033	583,222	634,462	731,300
Tucker.....	961,293	1,057,800	1,005,219	920,568	1,005,873	1,080,367	1,083,881	1,114,732
Upshur.....		5,809	39,502	76,773	60,589	70,396	56,189	37,091
Wayne.....	21,165	14,914	25,217	35,756	34,619	41,464	30,111	48,130
Wyoming.....				652				
Small Mines.....	180,000	180,000	180,000	180,000	180,000	200,000	300,000	300,000
Totals.....	31,503,029	37,403,474	40,040,311	39,367,010	41,693,766	52,923,708	54,063,186	59,581,774

TABLE SHOWING THE COMPARATIVE STATEMENT OF THE COAL PRODUCTION FOR 1912 AND 1911.

(Tons of 2,240 pounds.)

COUNTY.	Coal Production for		Increase of 1912 Over 1911	Decrease of 1912 Under 1911
	1912	1911		
Brooke.....	680,192	608,087	72,105	
Hancock.....		65,207		65,207
Marion.....	4,833,652	4,084,822	748,830	
Marshall.....	664,493	509,850	154,643	
Ohio.....	374,595	301,911	72,784	
Harrison.....	4,529,344	3,974,058	555,286	
Lewis.....	40,057	3,684	36,373	
Upshur.....	37,091	56,189		19,098
Barbour.....	756,395	792,268		35,873
Monongalia.....	382,164	464,319		82,155
Preston.....	841,801	888,202		46,401
Taylor.....	731,300	634,462	96,838	
Grant.....	188,907	221,462		32,555
Mineral.....	655,941	615,059	40,882	
Randolph.....	716,632	788,662		72,030
Tucker.....	1,114,732	1,083,881	30,851	
Braxton.....	203,430	175,846	27,584	
Gilmer.....	57,641	35,029	22,612	
Mason.....	139,377	209,807		70,430
Putnam.....	506,470	529,588		23,118
Clay.....	181,963	92,205	89,758	
Fayette.....	8,812,058	9,019,395		207,337
Kanawha.....	5,606,522	5,753,470		146,948
Boone.....	329,179	69,305	259,874	
Nicholas.....	46,135	98,257		52,122
Greenbrier.....	52,358	48,819	3,539	
Raleigh.....	4,581,776	3,335,417	1,246,359	
Mercer.....	2,783,866	2,533,728	250,138	
McDowell.....	13,768,077	11,945,763	1,822,314	
Lincoln.....		65,045		65,045
Logan.....	3,243,033	2,663,155	579,878	
Mingo.....	2,374,563	2,036,223	338,340	
Wayne.....	48,136	30,111	18,019	
Totals.....	59,281,774	53,733,186	6,467,007	918,419
Small Mines.....	300,000	300,000		
Grand Totals.....	59,581,774	54,033,186	6,467,007	918,419

ORDER IN THE PRODUCTION OF COAL AND COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912.

COUNTY	Number of Mines Producing Coal	Production of Coal. (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			Order in Production	
		First Six Months	Second Six Months	Total Coal Production for the Year	First Six Months	Second Six Months	Total for the Year	Coal	-Coke
McDowell.....	103	6,723,547	7,044,530	13,768,077	406,980	521,565	928,545	1	1
Fayette.....	103	4,541,566	4,270,492	8,812,058	192,743	177,774	370,517	2	2
Kanawha.....	99	2,813,817	2,792,705	5,606,522				3	
Marion.....	34	2,359,322	2,474,330	4,833,652	39,014	42,133	81,147	4	6
Raleigh.....	43	2,150,352	2,131,424	4,281,776				5	
Harrison.....	66	2,156,905	2,372,370	4,529,274				6	
Logan.....	33	1,338,144	1,704,889	3,043,033				7	
Mercer.....	22	1,386,135	1,397,731	2,783,866	86,627	101,573	188,200	8	4
Mingo.....	29	1,184,707	1,189,536	2,374,243				9	
Tucker.....	13	516,920	597,812	1,114,732	21,665	17,045	40,710	10	8
Preston.....	15	324,475	517,326	841,801	82,779	113,252	196,031	11	3
Barbour.....	14	345,158	411,237	756,395		1,475	1,475	12	11
Taylor.....	10	355,064	376,236	731,300	3,226	3,226	6,452	13	9
Randolph.....	12	335,127	381,505	716,632	52,520	66,993	119,513	14	5
Brooke.....	6	315,127	363,065	680,192				15	
Marshall.....	7	304,521	359,872	664,393				16	
Mineral.....	18	270,394	376,547	650,941				17	
Putnam.....	3	260,562	245,908	506,470				18	
Monongalia.....	7	186,207	186,957	373,164	27,579	28,415	55,994	19	7
Ohio.....	5	158,019	216,576	374,595				20	
Boone.....	8	123,012	208,167	329,179				21	
Braxton.....	4	98,897	104,533	203,430				22	
Grant.....	2	88,607	100,300	188,907				23	
Clay.....	3	91,639	90,324	181,963				24	
Mason.....	3	81,281	58,096	139,377				25	
Gilmer.....	3	27,694	29,947	57,641				26	
Greenbrier.....	1	27,050	25,308	52,358				27	
Wayne.....	1	19,450	38,680	48,130				28	
Nicholas.....	5	17,834	28,301	46,135				29	10
Lewis.....	1	17,360	22,697	40,057	1,281	1,832	3,113	30	
Upshur.....	3	14,547	22,544	37,091				31	
Totals.....	678	28,842,500	30,439,274	59,281,774	917,414	1,075,283	1,992,697		

PRODUCTION OF COAL AND COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912.

COUNTY	Production of Coal (Tons of 2,240 lbs.)			Distribution of Coal (Tons of 2,240 lbs.)			Production of Coke (Tons of 2,000 lbs.)			Acres of Coal Worked Out
	First Six Months	Second Six Months	Total Coal Produced For Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mines	First Six Months	Second Six Months	Total for the Year
Brooke	315,127	365,065	680,192	1,877	4,928	---	673,387	---	---	123.67
Marion	2,359,322	2,474,330	4,833,652	132,398	23,696	115,841	4,561,717	39,014	42,133	893.84
Marshall	304,521	359,872	664,393	11,573	161,292	---	501,566	---	---	120.78
Ohio	158,019	216,576	374,595	1,462	13,498	---	359,635	---	---	68.18
Harrison	2,166,965	2,372,379	4,539,344	46,449	12,904	---	4,469,991	---	---	835.91
Lewis	17,360	22,697	40,057	---	---	---	40,057	---	---	7.28
Upshur	14,547	22,544	37,091	1,065	403	---	35,683	---	---	6.74
Barbour	346,158	411,237	756,395	16,914	3,207	1,975	734,299	---	1,475	137.52
Monongalia	186,207	195,937	382,144	3,302	3,126	81,726	294,010	27,379	24,415	69.48
Preston	342,475	517,326	861,801	16,009	7,460	296,198	561,534	82,779	113,252	155.94
Taylor	355,064	376,236	731,300	7,490	2,226	10,753	716,831	3,226	3,226	196.031
Grant	88,607	100,300	188,907	13,037	1,419	---	174,451	---	---	132.96
Mineral	279,394	376,947	655,941	5,138	2,557	---	648,246	---	---	34.34
Randolph	335,127	381,505	716,632	8,746	4,596	152,504	550,786	52,520	66,983	119.26
Tucker	516,920	597,812	1,114,732	42,573	2,248	61,066	1,008,845	23,065	17,045	130.29
Braxton	98,897	104,353	203,450	1,803	998	---	200,629	---	---	232.67
Glinner	27,694	29,947	57,641	---	---	---	57,641	---	---	36.98
Mason	81,281	58,096	139,377	2,720	11,135	---	125,522	---	---	10.48
Putnam	200,562	245,808	506,470	6,767	14,643	4,850,060	4,850,060	---	---	25.34
Clay	91,639	90,324	181,963	2,201	1,862	---	177,900	---	---	92.08
Fayette	4,541,566	4,270,492	8,812,058	192,778	125,406	557,562	7,933,312	192,743	177,774	33.08
Kanawha	2,813,817	2,792,705	5,606,522	79,313	83,541	---	5,433,668	370,517	---	1,702.19
Boone	123,012	206,167	329,179	3,600	4,522	---	321,057	---	---	1,119.36
Nicholas	17,834	25,301	43,135	1,392	8,617	4,164	31,962	1,281	1,832	59.55
Greenbrier	27,050	25,305	52,355	285	158	---	51,915	---	---	8.38
Raleigh	2,150,352	2,431,424	4,581,776	84,498	38,368	---	4,458,724	---	---	9.51
Mercer	1,386,155	1,397,731	2,783,886	32,903	33,812	296,675	2,401,576	87,927	101,573	833.05
McDowell	6,723,547	7,044,530	13,768,077	287,940	145,897	1,418,117	11,916,123	406,980	521,565	526.15
Logan	1,538,144	1,704,889	3,243,033	44,151	38,627	---	3,160,255	---	---	2703.28
Mingo	1,184,707	1,189,856	2,374,563	55,791	30,250	---	2,288,492	---	---	609.64
Wayne	19,450	28,680	48,130	---	888	---	47,242	---	---	451.73
Totals	25,842,500	30,439,271	59,281,774	1,154,313	775,264	2,955,581	54,696,616	917,414	1,075,283	1,180.67
Small Mines	150,000	150,000	300,000	---	---	---	---	---	---	60.00
1912 Grand Totals	25,992,500	30,589,271	59,581,774	1,154,313	775,264	2,955,581	54,696,616	917,414	1,075,283	1,192.67
1911 Grand Total	25,371,962	25,661,224	54,033,186	991,483	870,644	4,043,724	47,827,335	1,508,966	1,185,081	1,080.83
Changes	* 620,538	* 4,928,050	* 5,548,588	162,830	95,380	2,088,143	* 2,896,281	591,552	109,798	438.84

*—Means Increase.

†—Means Decrease.

PRODUCTION OF COAL AND COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912.

COUNTY	COAL.					COKE.		ACCIDENTS				
	Production from July 1, 1911 to December 31, 1911	Production from Jan 1, 1912, to June 30, 1912	Total Coal Production for the Year	Used in Operation of the Mines	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mines	Production from July 1, 1911, to December 31, 1911	Production from Jan. 1, 1912, to June 30, 1912	Total for the Year	Fatal	Non-Fatal
Brooke.....	315,127	365,065	680,192	1,877	4,928		673,387				5	2
Marion.....	2,353,322	2,477,330	4,830,652	132,398	23,696		4,561,717	39,014	42,133	81,147	15	66
Marshall.....	304,321	359,872	664,193	11,575	151,252		501,566				2	4
Ohio.....	158,019	216,576	374,595	1,462	13,498		359,635				2	3
Harrison.....	2,156,965	2,372,379	4,529,344	46,449	12,904		4,469,991				14	36
Lewis.....	17,360	22,697	40,057				40,057				0	1
Upshur.....	14,547	22,544	37,091	1,005	403		35,683				1	
Barbour.....	345,158	411,237	756,395	16,914	3,207	1,975	734,299		1,475	1,475	4	18
Monongalia.....	186,207	195,957	382,164	3,302	3,126	81,726	294,010	27,579	28,415	55,994	2	11
Preston.....	324,475	517,326	841,801	16,609	7,460	256,198	561,534	82,779	113,252	196,031	3	13
Taylor.....	355,064	376,236	731,300	7,490	2,226	10,753	710,831	3,226	3,226	6,452	2	14
Grant.....	88,607	100,300	188,907	13,637	1,419		174,451				1	8
Mineral.....	279,394	376,947	656,341	5,138	2,557		648,246					10
Randolph.....	335,127	381,505	716,632	8,746	4,596	152,504	550,786	52,520	66,993	119,513	2	3
Tucker.....	516,920	597,812	1,114,732	42,573	2,248	61,066	1,098,846	23,665	17,045	40,710	7	18
Braxton.....	98,897	104,533	203,430	1,803	998		200,629				2	4
Gilmer.....	27,694	29,947	57,641				57,641				1	
Mason.....	81,281	58,096	139,377	2,720	11,135		125,522				1	7
Putnam.....	260,562	245,908	506,470	6,767	14,643		485,000				3	5
Clay.....	91,639	90,324	181,963	2,201	1,862		177,900				1	
Fayette.....	4,541,566	4,270,492	8,812,058	192,778	128,106	557,562	7,933,312	192,743	177,774	370,517	50	140
Kauaaha.....	2,813,817	2,792,705	5,606,522	79,313	83,541		5,443,668				24	53
Boone.....	123,012	206,167	329,179	3,600	4,522		321,057				1	1
Nicholas.....	17,834	28,301	46,135	1,392	8,617	4,164	31,962	1,281	1,832	3,113		2
Greenbrier.....	27,050	25,308	52,358	285	158		51,915					1
Raleigh.....	2,150,352	2,431,424	4,581,776	84,494	38,558		4,458,724				31	75
Mercer.....	1,386,135	1,397,731	2,783,866	52,503	33,812	296,675	2,401,876	87,627	101,573	189,200	23	62
McDowell.....	6,723,547	7,044,530	13,768,077	287,940	145,897	1,418,117	11,916,123	406,980	521,565	928,545	191	227
Mingo.....	1,538,144	1,704,889	3,243,033	44,151	38,027		3,160,255				10	22
Logan.....	1,184,707	1,189,856	2,374,563	55,791	30,280		2,288,492				11	31
Wayne.....	19,450	28,680	48,130		888		47,242					
Grand Totals.....	28,842,500	30,439,274	59,281,774	1,154,313	775,264	2,955,581	54,696,616	917,414	1,075,283	1,992,697	409	840
Small Mines.....	150,000	150,000	300,000									
Grand Totals for 1912.....	28,992,500	30,589,274	59,581,774	1,154,133	775,264	2,955,581	54,696,616	917,414	1,075,283	1,992,697		

*COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912.*

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)			DISTRIBUTION OF COAL (Tons of 2,240 lbs.)				PRODUCTION OF COKE (Short Tons)			Railroad Located on	
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months	Total for Year		
BROOKE COUNTY													
W. Va. & Pittsburgh Coal Co.	W. V. Pittsburgh No. 3	14,989	23,548	38,537	404			38,133				P.C.C.&S.L.L.	
W. Va. & Pittsburgh Coal Co.	W. Va. Pittsburgh No. 4		22,052	22,052	10	1,208		20,834				P.C.C.&S.L.L.	
W. Va. & Pittsburgh Coal Co.	Lonest Grove No. 1	113,876	120,003	239,870	1,463			238,407				P.C.C.&S.L.L.	
Beech Bottom Coal Co.	Beech Bottom No. 1	47,833	51,998	99,831		1,000		98,831				P. W. & K.	
LaBelle Coal Co.	Lewis No. 1	34,967	2,353	63,220		2,720		60,500				P.C.C.&S.L.L.	
LaBelle Iron Works	LaBelle Shaft	103,471	113,211	216,682				216,682				Pennsylvania	
Total		315,127	365,065	680,192	1,877	4,928		673,387					
MARION COUNTY													
Consolidated Coal Co.	Consolidation No. 22	101,609	105,747	207,256	1,500	1,992		203,764				B. & O.	
Consolidation Coal Co.	Consolidation No. 24	61,021	58,897	120,518		833		111,899				B. & O.	
Consolidation Coal Co.	Consolidation No. 26	112,941	118,962	231,903	9,502	2,044		219,757				B. & O.	
Consolidation Coal Co.	Consolidation No. 28	42,680	40,952	83,221	1,440	359		81,422				B. & O.	
Consolidation Coal Co.	Consolidation No. 34	38,798	30,521	69,319		528		68,791				B. & O.	
Consolidation Coal Co.	Consolidation No. 36	75,233	57,325	132,658				132,375				B. & O.	
Consolidation Coal Co.	Consolidation No. 38	114,243	113,002	227,845	7,944	1,445		218,456				B. & O.	
Consolidation Coal Co.	Consolidation No. 43	123,760	117,945	241,705	7,200	161	10,692	223,813	3	7,183	7,186	B. & O.	
Consolidation Coal Co.	Consolidation No. 45	32,811	32,591	65,402	2,181			63,000				B. & O.	
Consolidation Coal Co.	Consolidation No. 47	56,933	71,069	131,000	1,981	88		129,831				B. & O.	
Consolidation Coal Co.	Consolidation No. 53	82,222	81,942	164,164	480			163,684				B. & O.	
Consolidation Coal Co.	Consolidation No. 56	92,900	101,365	197,265	5,707	825		190,733				B. & O.	
Consolidation Coal Co.	Consolidation No. 59	11,875	8,967	20,842	977	18		19,847				B. & O.	
Consolidation Coal Co.	Consolidation No. 63	106,508	107,789	214,297	2,400		67,205	144,692	26,918	21,813	48,731	B. & O.	
Consolidation Coal Co.	Consolidation No. 67	40,739	38,343	79,282	1,474	908		76,900				B. & O.	
Consolidation Coal Co.	Consolidation No. 68	80,598	50,867	140,465	1,273	589		138,603				B. & O.	
Consolidation Coal Co.	Consolidation No. 84	12,484	18,001	30,488	861	122		29,505				B. & O.	
Consolidation Coal Co.	Consolidation No. 82	394	325	919		919		300,713				B. & O.	
Consolidation Coal Co.	Consolidation No. 7	138,368	176,483	308,851	6,303	1,835		302,000				B. & O.	
Consolidation Coal Co.	Consolidation No. 8	235,134	241,336	476,470	16,767	489	32,214	427,000	10,635	11,013	21,648	B. & O.	
Consolidation Coal Co.	Consolidation No. 9	101,046	114,058	215,704	9,220	525		205,956				B. & O.	
Consolidation Coal Co.	Consolidation No. 9	91,034	116,166	201,200	9,719	1,460		190,021				B. & O.	
Consolidation Coal Co.	Consolidation No. 1	234,268	216,764	451,032	18,627	1,588		430,817				B. & O.	
Consolidation Coal Co.	Consolidation No. 1	143,661	144,588	590,252	30,000	3,000	5,730	278,522	1,458	2,124	3,582	B. & O.	
Consolidation Coal Co.	Consolidation No. 1	22,204	30,939	53,143	300	2,000		56,843				B. & O.	

Parker Run C. & C. Co.	14,954	33,277	48,231	750	350	47,131	B. & O.
Harry B Coal & Coke Co.	27,222	22,450	49,672			49,672	B. & O.
Kilarn Coal & Coke Co.		10,625	23,664		40	10,585	B. & O.
Pittsburg Steam Coal Co.	13,553	10,101	23,664			23,664	B. & O.
Catawba Coal Co.	7,076	9,064	16,140			16,140	B. & O.
Dakota Coal & Coke Co.	26,790	32,055	58,845	3,459	523	54,863	B. & O.
Phillips Coal Co.	5,301	5,786	11,087			11,087	B. & O.
Four States Coal & Coke Co.	106,539	140,553	247,092	11,919	697	234,476	B. & O.
Robinson Coal Co.	1,631	5,474	7,105			7,105	B. & O.
Total.	2,359,322	2,474,330	4,833,652	132,398	23,696	4,561,717	81,147
MARSHALL COUNTY							
Hitchman	139,221	163,591	302,912	6,138	2,989	293,685	B. & O.
Benwood	59,898	50,826	110,724		110,724		B. & O.
Mound	24,100	47,300	71,400	1,600	23,100	46,700	B. & O.
Parrs Run	8,000	26,090	34,000		3,560	25,500	B. & O.
Ben Franklin Coal Co.	42,203	34,224	76,427	1,630	223	74,574	B. & O.
Panama	3,963	4,022	7,985		7,478		B. & O.
Boggs Run	27,436	33,909	61,345	2,900	1,238	58,107	B. & O.
Glendale							B. & O.
Total.	304,521	359,872	664,393	11,575	151,252	501,566	
OHIO COUNTY							
Richland Coal Co.	105,200	157,100	262,300		600	261,700	P. C. C. & St. L.
Elm Grove Coal Co.	28,213	36,158	58,371	1,462	1,729	55,180	B. & O.
Whitaker-Glessner Co.	18,878	23,877	42,755			42,755	W. & L. E.
J. S. Creighton	1,828	1,641	3,569		3,569		W. & L. E.
Peter Storeh & Sons	3,800	3,800	7,600		7,600		B. & O.
Total.	158,019	216,576	374,595	1,462	13,498	359,635	
HARRISON COUNTY							
The Consolidation Coal Co.	65,050	79,478	141,528	6,475	997	137,056	B. & O.
The Consolidation Coal Co.	21,294	18,450	39,714			39,714	B. & O.
The Consolidation Coal Co.	105,572	97,792	203,364	3,600	1,143	198,621	B. & O.
The Consolidation Coal Co.	25,397	32,632	58,029		62	57,967	B. & O.
The Consolidation Coal Co.	34,595	34,992	69,587	3,569	203	65,815	B. & O.
The Consolidation Coal Co.	56,918	88,500	145,468	250	304	144,714	B. & O.
The Consolidation Coal Co.	20,234	25,451	45,775		28	45,747	B. & O.
The Consolidation Coal Co.	36,577	46,525	82,102	1,850	330	79,922	B. & O.
The Consolidation Coal Co.	28,459	21,626	50,085	1,621	731	47,730	B. & O.
The Consolidation Coal Co.	55,963	68,076	124,039	88	347	123,604	B. & O.
The Consolidation Coal Co.	30,379	29,569	59,948	812	131	59,005	B. & O.
The Consolidation Coal Co.	92	141	233		233		B. & O.
The Consolidation Coal Co.	9,255	13,075	22,330			22,330	B. & O.
The Consolidation Coal Co.	3,499	3,499			5	3,494	B. & O.
The Consolidation Coal Co.	21,771	28,796	50,567		162	50,405	B. & O.
The Consolidation Coal Co.	85,717	90,186	175,903	5,004	1,110	196,789	B. & O.
The Consolidation Coal Co.	39,900	42,584	82,484			82,484	B. & O.

**COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)**

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)			DISTRIBUTION OF COAL (Tons of 2,240 lbs.)			PRODUCTION OF COKE (Short Tons)			Railroad Located on		
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months		Total for Year	
HARRISON COUNTY—Continued													
The Consolidation Coal Co.	Consolidation No. 51	45,849	51,794	97,634	900	689		96,045				B. & O.	
The Consolidation Coal Co.	Consolidation No. 52	37,803	47,841	85,644	2,284	291		83,069				B. & O.	
The Consolidation Coal Co.	Consolidation No. 54	16,591	23,723	40,314		62		40,252				B. & O.	
The Consolidation Coal Co.	Consolidation No. 55	41,472	84,669	126,141		88		84,611				B. & O.	
The Consolidation Coal Co.	Consolidation No. 58	19,827	27,330	47,157	1,075			46,281				B. & O.	
The Consolidation Coal Co.	Consolidation No. 60	11,025	19,408	30,433		48		30,385				B. & O.	
The Consolidation Coal Co.	Consolidation No. 62	22,577	21,785	44,362				44,362				B. & O.	
The Consolidation Coal Co.	Consolidation No. 64	26,918	32,287	59,205	1,800	472		56,433				B. & O.	
The Consolidation Coal Co.	Consolidation No. 65	24,902	24,591	49,553	1,500	38		48,015				B. & O.	
The Consolidation Coal Co.	Consolidation No. 66	38,443	38,574	77,017	2,113	116		74,788				B. & O.	
Virginia Maryland Coal Corporation	Willard No. 1-2	89,885	93,085	182,970	2,191	331		181,048				B. & O.	
Corona Coal & Coke Co.	Harold	39,548	47,321	86,869		86		86,783				B. & O.	
Central Fairmont Coal Co.	Snake Hill	28,253	27,736	55,989				55,989				B. & O.	
Vincent Coal Co.	Crassell	21,388	29,904	50,292		33		50,259				B. & O.	
Haywood Coal Mining Co.	Monroe	34,323	33,553	69,676				69,676				B. & O.	
Hutchinson Coal Co.	Fre.	115,711	113,553	229,264				229,264				B. & O.	
Hutchinson Coal Co.	McCandlish	94,386	101,460	195,846	2,029	553		193,264				B. & O.	
Hutchinson Coal Co.	Delta	19,426	24,531	43,957	1,200	268		42,489				B. & O.	
Hutchinson Coal Co.	York	2,402	3,808	6,210				6,200				B. & O.	
Hutchinson Coal Co.	Hutchinson	105,670	115,606	221,276				221,276				B. & O.	
Harrison County Coal Co.	Overholt	37,472	31,958	69,430				69,430				B. & O.	
Lambert Run Coal Co.	Clauson	39,015	47,885	86,900				86,900				B. & O.	
Righter Coal & Coke Co.	Righter	18,150	46,602	64,752				64,752				B. & O.	
Hero Coal & Coke Co.	Hero	13,771	9,851	23,622				23,622				B. & O.	
Blue Ridge Coal Co.	Thompson	5,029	1,873	6,902				6,902				B. & O.	
Rosebud Fuel Co.	Rosebud No. 1	10,597	11,266	21,863	300	96		21,467				B. & O.	
Rosebud Fuel Co.	Rosebud No. 2	28,827	32,959	61,786	400	66		61,320				B. & O.	
National Coal Co.	National	13,204	12,765	25,969				25,969				B. & O.	
Fayette Coal Co.	Fayette	18,811	15,401	34,212	550	350		33,312				B. & O.	
Short Line Coal Co.	Girard	19,667	41,307	60,974				39,778				B. & O.	
Farmount & Baltimore C. & C. Co.	Farmount	29,396	37,801	67,197		30		67,167				B. & O.	
Madera-Hill-Clark Coal Co.	Goff	37,060	38,024	75,084				75,084				B. & O.	
Madera-Hill-Clark Coal Co.	Waldo	31,729	22,531	54,260		777		53,483				B. & O.	
Madera-Hill-Clark Coal Co.	Randolph	69,000	74,500	143,500		250		143,220				B. & O.	
Madera-Hill-Clark Coal Co.	New Chieftan	8,000	2,500	10,500				10,500				B. & O.	

Orr Coal Mining Co.	Miller No. 1 and No. 2	10,335	13,600	24,025	50	150		23,825			B. & O.
O'Gara Coal Mining Co.	O'Gara	24,642	30,043	55,585				55,585			B. & O.
Duquesne Coal Co.	Phoenix	12,218	8,755	20,973				20,973			B. & O.
Harry B. Coal & Coke Co.	Pittsburg	81,399	63,453	144,852	2,223	378		142,251			B. & O.
Marshall Coal Co.	Marshall	84,466	92,348	176,753	2,667	1,292		172,794			B. & O.
Bernard Coal Co.	Berk	2,121	3,003	5,124		49		5,075			B. & O.
Clarksburg Gas Coal Co.	McWhorter	1,075	5,026	6,101	185			5,916			B. & O.
Marion Gas Coal Co.	Buzanum	35,831	54,758	90,587		227		90,366			B. & O.
Daniel Coal Co.	Gocke No. 1	910	4,064	4,974				4,974			B. & O.
Daniel Coal Co.	Gocke No. 2	6,851	8,216	15,067				15,067			B. & O.
Hygrade Coal Co.	Page		3,894	3,894	180			3,714			B. & O.
Swiger Coal Co.	Gilbert	6,051	2,516	8,567				8,567			B. & O.
Monongah Fuel Co.	Gallup	10,374	13,374	23,748		148		23,600			B. & O.
Byron Coal Co.	Althea	22,933	20,873	43,806				43,806			B. & O.
Total		2,156,965	2,372,370	4,529,344	46,449	12,904		4,469,991			
LEWIS COUNTY											
Kroger Gas Coal Co.	Polar	17,340	22,697	40,037				40,037			B. & O.
Total		17,340	22,697	40,037				40,037			
UTSHUR COUNTY											
Red Rock Fuel Company	Red Rock No. 1	14,947	11,706	26,653	900	394		24,429			B. & O.
Newcomer Coal Co.	Newcomer	506	2,000	2,500	15	9		2,476			B. & O.
Buckhamton River C. & C. Co.	Florence		8,778	8,778				8,778			C. & C.
Total		14,957	22,544	37,691	1,005	403		35,683			
BARBOUR COUNTY											
Luella Coal & Coke Co.	Adna		1,360	1,360				1,360			B. & O.
Merriden Coal Mining Co.	Merriden Nos. 1-2-3-4	27,459	26,889	54,348	835	195		53,318			B. & O.
Tygart's River Coal Co.	Ardlen	19,556	16,105	35,661	1,876	396		33,389			B. & O.
The Consolidation Coal Co.	Consolidation No. 37	66,969	89,459	156,428	2,198	822		153,408			B. & O.
Laurel Creek Coal & Coke Co.	Laurel Creek No. 1	1,301	4,135	5,436		20		5,416			B. & O.
Century Coal Co. of W. Va.	Century No. 1-2	137,623	150,849	294,472	6,086	970		287,416			B. & O.
Davis Coal & Coke Co.	Dartmore	270	11,048	11,318	240	65		11,013			W. M.
Grafton Fuel Co.	Lillian No. 1-2	24,855	19,943	44,778	479	125		44,174			W. M.
Gages Coal & Coke Company	Sara		5,288	5,288	80	20		3,313	1,475	1,475	B. & O.
Davis Colliery Co.	Junior No. 4		3,185	3,185	72	80		3,053			W. M.
Midland Coal & Coke Co.	Midland	2,307	3,430	6,737	4,561	84		2,092			B. & O.
Luella Coal & Coke Co.	Luella	17,886	22,630	30,516		260		30,316			B. & O.
Humphreys Coal Co.	Humphreys No. 1	4,645	14,179	18,824		230		18,594			B. & O.
Davis Coal & Coke Co.	Weaver No. 3	41,307	35,037	76,944	457			76,457			W. M.
Total		345,158	411,237	756,395	16,914	3,207		734,290	1,475	1,475	
MONONGALIA COUNTY											
Pittsburg Steam Coal Co.	Opekiska	13,072	10,147	23,219	250	700		11,856	3,354	2,893	B. & O.
Consolidation Coal Co.	Consolidation No. 30	28,361	29,293	57,654	560	174		57,120			B. & O.

*COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)*

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)		DISTRIBUTION OF COAL (Tons of 2,240 lbs.)					PRODUCTION OF COKE (Short Tons)			Railroad Located on	
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months	Total for Year		
MONONGALIA COUNTY—Cont'd													
Elkins Coal & Coke Co.	Richard No. 1	38,188	47,877	86,065	2,652	308	71,313	11,792	24,225	25,522	49,747	M. & K.	
Elkins Coal & Coke Co.	Coaling Station No. 3	8,603	9,333	17,936				17,936				M. & K.	
Elkins Coal & Coke Co.	Salatron Nos. 4-5	76,993	75,628	152,621		137		152,484				M. & K.	
Great Scott Coal & Coke Co.	Great Scott	3,490	6,179	9,669	40	1,807		7,822				B. & O.	
Ault Coal Co.	Round Bottom No. 1	17,500	17,500	35,000				35,000				B. & O.	
Total		186,207	197,957	382,164	3,302	3,126	81,726	294,010	27,579	28,415	55,994		
PRESTON COUNTY													
Austen Coal & Coke Co.	Austen No. 1	23,770	50,389	74,159	1,500	770	62,149	9,740	9,480	31,953	41,433	B. & O.	
Austen Coal & Coke Co.	Austen No. 2	10,638	25,349	35,987				35,987				B. & O.	
Hamilton Coal & Coke Co.	Newburg	23,029	19,378	42,407	3,787	120		38,500				B. & O.	
Gorman Coal & Coke Co.	Gorman No. 2	12,120	22,421	34,541	812	223		33,506				B. & O.	
Merchants Coal Co.	Tunnelton	98,908	112,884	211,792	4,129	999		206,694				B. & O.	
S. H. Jordan	Cornith	10,579	9,520	20,099	300	705		19,094				B. & O.	
Kingwood Coal Co.	Kingwood	15,814	32,946	48,760	858	150		47,752				W. Va. North.	
Hite Coal & Coke Co.	Dixie	3,000	3,000	6,000		100		2,900				B. & O.	
Elkins Coal & Coke Co.	Breiz No. 2	60,647	65,519	126,166	3,022	500	95,081	27,563	37,426	31,513	68,939	M. & K.	
Elkins Coal & Coke Co.	Kingwood No. 4		36,893	36,893	721	11		36,161				M. & K.	
Elkins Coal & Coke Co.	Masontown No. 6	14,312	49,264	63,576	962	588		62,026				M. & K.	
Preston County Coke Co.	Cascade Nos. 1-2-3	43,173	56,726	99,899	115	816		98,968				M. & K.	
Borgman Coal Co.	Borgman No. 1	10,125	19,200	29,325	225	100		25,000				W. Va. N.	
Horra Coal Co.	Vulcan		5,500	5,500	84	10		5,406				B. & O.	
Irona Coal Co.	Irona No. 2	1,360	12,537	13,697	94	2,368		11,235				B. & O.	
Total		324,475	517,326	841,801	16,609	7,490	256,198	561,534	82,779	113,252	196,031		
TAYLOR COUNTY													
Grafton Coal & Coke Co.	Sand Lick	18,365	17,853	36,218		78		36,140				B. & O.	
Pittsview Coal Co.	Flemington No. 4	38,437	50,786	89,423		319		89,032				B. & O.	
T. B. Davis	T. B. Davis Nos. 1-2	23,665	21,342	45,007	425	135		44,447				B. & O.	
McGraw Coal Co.	New York No. 1	32,803	29,703	62,505	2,101	312		60,092				B. & O.	
Rosemont Coal Co.	Rosemont	118,793	117,913	236,506	805	426		235,015				B. & O.	
Maryland Coal Co. of W. Va.	Wendel No. 81-2-3-4-5	89,101	98,674	187,775	3,103	404		184,268				B. & O.	
Winona Coal & Coke Co.	Winona	11,170	11,170	22,340	750	270	10,753	10,567	3,226	3,226	6,452	B. & O.	

Sterling Coal Co.	6,577	5,632	12,209	46	10	12,153	B. & O.
Harrison Coal Co.	14,904	12,613	27,517	200	290	27,517	B. & O.
Sunnyside Coal Co.	1,250	10,755	12,000			11,000	B. & O.
Total	355,064	376,236	731,300	7,490	2,226	710,831	6,452
GRANT COUNTY							
Davis Coal & Coke Co.	54,033	56,810	119,843	12,037	483	107,323	W. M.
Buffalo Creek Cumberland Coal Co.	34,574	34,490	69,064	1,900	956	67,128	W. M.
Total	88,607	100,300	188,907	13,037	1,419	174,451	
MINERAL COUNTY							
Davis Coal & Coke Co.	15,944	34,132	50,076	390	663	49,383	W. M.
Elk Garden No. 6		16,179	16,179	16	89	16,071	W. M.
Walash No. 9		3,389	16,307	53		16,254	W. M.
Tyson No. 10	12,918	38,717	74,531	759	388	73,708	W. M.
Kittanning No. 14	26,134	31,781	59,961	564	304	59,657	W. M.
Ott. No. 20	13,135	18,646	34,668			34,668	W. M.
Davis Coal & Coke Co.	35,926	49,042	84,668	972	11	83,696	W. M.
Montgomery Run No. 19	13,724	19,094	32,818	612	280	31,835	W. M.
Davis Coal & Coke Co.	42,820	58,249	101,079	853	237	100,187	W. M.
Hampshire No. 50	21,110	23,708	44,827	27		43,737	W. M.
Davis Coal & Coke Co.	6,783	5,652	12,435	123		12,408	W. M.
Oakmont	23,183	19,318	42,503	133		42,380	W. M.
Abrams Creek Coal & Coke Co.	1,398	9,510	9,510			9,510	W. M.
Mastellar Coal Co.	5,108	20,389	25,497	75		25,422	W. M.
Hampshire No. 2	4,086	20,333	24,419	148		24,271	W. M.
New Creek	16,902	26,044	42,946	720	75	42,946	W. M.
Smith	17,942	24,808	42,750	250	300	41,730	W. M.
Walash Nos. 1-2-3-4	12,560	14,440	27,000	137	130	26,000	W. M.
Gleason Coal & Coke Co.		137	137			137	W. M.
Big Vein Coal Mining Co.							
Bakerstown							
Black Diamond							
Total	279,394	376,547	655,941	3,138	2,537	648,246	
RANDOLPH COUNTY							
Davis Coal & Coke Co.	69,934	61,562	131,496	1,885	759	128,852	W. M.
Weaver No. 1	65,142	62,049	127,791	812		126,979	W. M.
Davis Coal & Coke Co.	86,527	116,305	201,832	2,300		199,532	C. & C.
Coalton No. 1	14,006	24,170	38,776	138	218	38,700	C. & C.
Davis Colliery Co.	52,684	54,578	107,262	2,298	539	104,963	W. M.
Harding No. 3	6,304	6,974	13,278			13,278	C. & C.
Davis Colliery Co.	12,331	13,869	26,251	204		26,047	C. & C.
Blonlike No. 1	7,913	13,269	21,182			21,182	C. & C.
Hopkins No. 1	10,650	15,635	26,285	100	50	26,235	C. & C.
W. Va. Pulp & Paper Co.	7,000	8,000	15,000			15,000	C. & C.
J. B. Jenkins Coal & Coke Co.	3,053	5,424	8,477	1,689		8,477	C. & C.
Leroy No. 1					200		C. & C.
Rich Mountain Coal Co.							C. & C.
Hartridge Nos. 1-2							C. & C.
Beech Run Nos. 1-2							C. & C.
Total	325,127	381,505	717,632	8,746	4,506	708,386	119,513

*COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)*

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)		DISTRIBUTION OF COAL (Tons of 2,240 lbs.)				PRODUCTION OF COKE (Short Tons)			Railroad Located on	
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months		Total for Year
TUCKER COUNTY												
Cumberland Coal Co.	Douglas No. 1	52,807	69,528	122,335	1,200	---	11,280	109,855	4,191	3,329	7,520	W. M.
Cumberland Coal Co.	Douglas No. 2	29,450	38,677	68,127	116	---	---	68,517	---	---	---	W. M.
Cumberland Coal Co.	Douglas No. 3	17,602	---	17,602	---	---	---	17,602	---	---	---	W. M.
Davis Coal & Coke Co.	Thomas No. 23	71,142	80,125	151,267	21,893	2,069	---	124,365	---	---	---	W. M.
Davis Coal & Coke Co.	Thomas No. 25	42,960	55,988	98,948	6,530	---	---	92,418	---	---	---	W. M.
Davis Coal & Coke Co.	Thomas No. 28	---	2,418	2,418	---	---	7	2,411	---	---	---	W. M.
Davis Coal & Coke Co.	Thomas No. 31	41,992	42,486	86,478	1,364	---	---	83,114	---	---	---	W. M.
Davis Coal & Coke Co.	Pierce No. 39	7,293	18,233	25,496	2,059	4	---	23,433	---	---	---	W. M.
Davis Coal & Coke Co.	Coketon No. 24	26,376	39,082	65,458	---	---	---	65,458	---	---	---	W. M.
Davis Coal & Coke Co.	Coketon No. 26	18,615	18,359	36,974	978	---	---	35,996	---	---	---	W. M.
Davis Coal & Coke Co.	Coketon No. 36	108,142	81,458	189,600	211	---	49,786	167,302	19,474	13,716	33,190	W. M.
Davis Coal & Coke Co.	Coketon No. 37	32,201	41,723	73,924	156	---	---	46,079	---	---	---	W. M.
Davis Coal & Coke Co.	Pierce No. 40	82,616	34,655	42,871	1,650	15	---	41,206	---	---	---	W. M.
Davis Coal & Coke Co.	Frances No. 41	16,272	15,349	31,621	46	83	---	31,492	---	---	---	W. M.
Davis Coal & Coke Co.	Bush No. 38	46,382	59,721	106,103	2,376	70	---	102,657	---	---	---	W. M.
Total		516,920	597,812	1,114,732	42,573	2,248	61,066	1,008,845	23,665	17,045	40,710	---
BRAXTON COUNTY												
Davis Colliery Co.	Bower No. 10	69,195	63,658	132,853	1,362	588	---	130,903	---	---	---	C. & C.
Davis Colliery Co.	Copen No. 11	28,380	36,643	65,023	366	351	---	64,306	---	---	---	C. & C.
Copen Creek Coal Co.	Vanwith	600	3,000	3,600	75	---	---	3,525	---	---	---	C. & C.
Braxton Coal & Coke Co.	Braxton	722	1,232	1,954	---	59	---	1,895	---	---	---	C. & C.
Total		98,897	104,533	203,430	1,803	998	---	200,629	---	---	---	---
GILMER COUNTY												
Gilmer Fuel Co.	Gilmer	27,694	27,332	55,026	---	---	---	55,026	---	---	---	C. & C.
McCaa Coal Co.	McCaa	---	1,195	1,195	---	---	---	1,195	---	---	---	C. & C.
Katherine Coal Co.	Katherine	---	1,420	1,420	---	---	---	1,420	---	---	---	C. & C.
Totals		27,694	29,947	57,641	---	---	---	57,641	---	---	---	---

COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)		Total Coal Produced for Year	DISTRIBUTION OF COAL (Tons of 2,240 lbs.)		PRODUCTION OF COKE (Short Tons)		Railroad Located on			
		1st Six Months	2nd Six Months		Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine		1st Six Months	2nd Six Months	Total for Year
FAYETTE COUNTY—Continued.												
Ganoco Coal Co.	Spint.	43,472	40,620	84,092		500		83,592			C. & O.	
Deitz Colliery Co.	Deitz.	26,354	23,962	50,316	235	450		50,231			C. & O.	
Christian Colliery Co.	Christian	14,000	14,000	28,000	1,200	200		26,600			C. & O.	
Millman Coal & Coke Co.	Millman No. 1	76,641	60,589	137,240	1,300	600		135,340			C. & O.	
Salway Collieries Co.	No. 1, A & B	68,849	86,765	155,614	400	682		154,532			C. & O.	
Mill Creek Colliery Co.	Mill Creek	17,078	19,013	36,091				36,091			C. & O.	
Gauley Mountain Coal Co.	Nova Scotia	85,624	88,243	174,867	5,805		19,272	149,530	7,863	6,819	14,682	
Signal Knob Coal Co.	Signal Knob	20,545	19,808	40,353				40,353			C. & O.	
Michigan Coal Co.	Michigan	12,847	15,588	28,435	350	442		27,643			C. & O.	
Manufacturers & Consumers Coal Co.												
G. M. Blume Estate	Newlyn	20,856	19,132	39,988		1,301		38,687			C. & O.	
Brown Coal Co.	Fayette	36,795	9,775	46,570	700			18,075			C. & O.	
Nuttallburg Smokeless Fuel Co.	Brown	21,202	36,486	57,688	600	550		72,131			C. & O.	
Holliday Coal Co.	Nuttallburg	1,000	23,065	24,065	1,080		2,015	37,564	3,390		3,390	
Keeney Creek Colliery Co.	Keeney Creek	36,425	2,000	38,425		50		1,950			C. & O.	
Keeney Creek Colliery Co.	Keeney Creek	36,425	32,214	68,639	800	540		67,299			C. & O.	
Keeney Creek Colliery Co.	Keeney Creek	25,950	27,185	53,135	750	440		54,945			C. & O.	
Ballingier Coal Co.	Ballingier No. 1	20,266	21,080	41,346	50	911		40,385			C. & O.	
Ballingier Coal Co.	Ballingier No. 2	2,089	1,942	4,031				4,031			C. & O.	
Rothwell Coal Co.	Dubree Nos. 1 & 2	18,313	16,281	34,594	912	565		33,117			C. & O.	
Blume Coal & Coke Co.	Blume	38,074	36,280	74,354	2,000	1,000		71,354			C. & O.	
Lookout Coal & Coke Co.	Lookout	14,040	22,399	37,300	600	1,200		33,239			C. & O.	
Fire Creek Coal & Coke Co.	Fire Creek or Buffalo	16,680	18,971	35,651	1,432	368	23,455	10,416	7,423	7,424	14,847	
Sewell Colliery Co.	Sugar Camp	27,218	23,732	50,950	620	480		49,850			C. & O.	
Berry Bros. Coal & Coke Co.	Echo	18,200	17,823	36,023	600	300		33,123			C. & O.	
Big Bend Coal Co.	Big Bend	3,832	7,018	10,850	250	180		10,420			C. & O.	
Stone Cliff Coal & Coke Co.	Stone Cliff	15,635	15,734	31,369	1,800	1,300		28,269			C. & O.	
Beechwood Coal & Coke Co.	Beechwood No. 1	40,611	37,718	78,330	672	1,200		76,458			C. & O.	
Beechwood Coal & Coke Co.	Beechwood No. 2	23,273	21,932	45,205	576			44,629			C. & O.	
Alaska Coal Co.	Alaska	10,481	11,438	21,919	340	360		21,219			C. & O.	
Ephraim Creek Coal & Coke Co.	Ephraim	68,175	62,041	130,216	3,109	1,301		125,806			C. & O.	
Export Coal Co.	Export	9,426	10,198	19,624	262			19,362			C. & O.	
Laurel Creek Coal Co.	Laurel	21,407	34,433	55,840		1,029		54,811			C. & O.	
Glendale Colliery Co.	Glendale	8,183	12,085	20,268	120	646		19,502			C. & O.	
Quinnmont Coal Co.	Big Q & Lick Branch	30,599	27,290	57,889	365	600		56,924			C. & O.	

COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)			DISTRIBUTION OF COAL (Tons of 2,240 lbs.)			PRODUCTION OF COKE (Short Tons)			Railroad Located on	
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months		Total for Year
KANAWHA COUNTY—Continued.												
Blue Creek Coal & Land Co.	Wills Hollow Nos. 1-2	17,435	6,646	6,646				6,646				K. & W. Va.
Blue Creek Coal & Land Co.	Blakeley No. 3	25,190	45,625	45,625	584	405		44,636				K. & W. Va.
Standard-Kanawha Coal Mining Co.	No. 1	20,125	40,732	40,732	1,020	97		39,615				K. & W. Va.
Standard-Kanawha Coal Mining Co.	No. 2	6,134	12,266	12,266		47		12,219				K. & W. Va.
Williams Coal Co.	Williams	3,215	7,128	10,343	300	100		9,943				K. & W. Va.
Campbells Creek Coal Co.	No. 1	118,038	116,202	234,240	6,051	5,286		222,900				C. & O.
Campbells Creek Coal Co.	No. 3	35,786	54,047	89,833	1,114	612		88,107				C. & O.
Virginia Coal Co.	Virginia	14,000	18,000	32,000	7,000	300		31,000				K. & M.
Quincy Coal Co.	Quincy No. 2	26,347	38,766	55,113	2,000	600		55,513				K. & M.
Sunday Creek Co.	No. 101	40,928	32,766	72,794	1,258	688		70,848				K. & M.
Sunday Creek Co.	No. 104	43,633	46,487	90,120	1,704	839		87,577				K. & M.
Sunday Creek Co.	No. 105	101,839	94,772	196,611	3,387	3,361		189,563				K. & M.
Kelley's Creek Colliery Company	No. 1	9,490	16,799	26,289	807	2,944		26,289				K. & M.
Kelley's Creek Colliery Company	No. 3	96,748	86,077	182,825	900	400		179,074				K. & M.
Hughes Creek Coal Company	No. 2 & 3	52,237	55,656	107,993	900	400		106,693				K. & M.
Cannelton Coal & Coke Company	No. 1 & 2	197,213	142,111	339,324	1,800	4,478		333,046				K. & M.
Cannelton Coal & Coke Co.	No. 4		1,786	1,786				1,786				K. & M.
Marnet Coal Co.	Monarch Nos. 1-2	42,587	33,789	76,376	3,259	1,024		72,093				K. & M.
Coopers Creek Coal Co.	Peacock	2,200	2,200	4,400				4,400				C. & C.
Marnet Coal Co.	New Butler	17,495	34,807	52,302	2,439	1,640		48,223				C. & O.
Marnet Coal Co.	Long Creek	16,825		16,825				16,825				C. & O.
Marnet Coal Co.	Black Band	29,375	31,634	61,009				61,009				C. & O.
Olcott Coal & Iron Co.	Olcott No. 1	40,442	35,411	75,853	3,000	545		72,308				K. C.
Olcott Coal & Iron Co.	Olcott No. 2	26,865	25,615	52,480		2,002		50,478				K. C.
Winfrede Coal Co.	South	46,406	12,204	58,610	2,034	909		55,667				C. & O.
Winfrede Coal Co.	North	22,042	20,250	42,292	1,768	847		40,577				C. & O.
Winfrede Coal Co.	West	35,124	29,498	64,622	2,303	1,086		61,233				C. & O.
Winfrede Coal Co.	Coalburg & Mt. Bryson	37,106	41,342	78,448	1,100	1,200		76,088				C. & O.
Dry Branch Coal Co.	Belmont No. 3	5,657	5,924	11,581				11,581				C. & O.
Coalburg Colliery Co.	Ronda	53,000	61,000	114,000	1,200	1,500		111,300				C. & O.
Wyatt Coal Co.	Oakley	21,045	25,763	46,808	1,200	480		45,128				C. & O.
Wyatt Coal Co.	Berlin	39,149	45,634	84,783	1,200	980		82,603				C. & O.
Wyatt Coal Co.	Horton No. 1	30,736	29,973	60,709				60,709				C. & O.
Wyatt Coal Co.	Horton No. 2	23,976	23,842	47,818		950		46,568				C. & O.
Wyatt Coal & Coke Co.	Peetess & Lewiston	18,972	18,972	37,944	830	26,394		10,720				C. & O.

COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912.—(Continued.)

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)		DISTRIBUTION OF COAL (Tons of 2,240 lbs.)					PRODUCTION OF COKE (Short Tons)			Railroad Located on
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months	Total for Year	
KANAWHA COUNTY—Continued.												
Belmont Coal Co.	Belmont & Cedar Grove	16,614	23,988	40,602	770	664		39,168				C. & O.
Crown Hill-Kanawha Coal Co.	Coalburg No. 8	8,000	20,467	28,467				28,467				C. & O.
Standard Splint & Gas Coal Co.	Standard	42,752	35,200	77,952	900	900		76,152				C. & O.
Imperial Colliery Co.	Imperial No. 1	56,600	43,900	99,500	2,400			97,100				C. & O.
Imperial Colliery Co.	Imperial Nos. 2-3	52,600	34,800	87,400		2,000		85,400				C. & O.
Chesapeake Mining Co.	Chesapeake No. 1	49,301	34,523	83,829	1,305	323		81,901				C. & O.
Chesapeake Mining Co.	Chesapeake Nos. 2-3	32,647	25,148	57,695	760	361		56,574				C. & O.
Montgomery Coal Co.	Kanawha	15,894	16,741	32,635	378	381		31,876				C. & O.
Morris Creek Collieries Co.	Kanawha No. 5 Block	12,800		12,800	300	100		12,400				C. & O.
East Bank Mining Co.	East Bank	1,000	3,000	3,000	75	75		2,850				C. & O.
Totals		2,813,817	2,792,705	5,606,522	79,313	83,541		5,443,668				
BOONE COUNTY.												
The Coal River Co.	Ottawa	26,716	37,063	63,779	673	1,888		61,218				C. & O.
Spruce River Coal Co.	Ramage Nos. 1-2	6,458	16,705	23,163		180		22,983				C. & O.
Peytona Block Coal Co.	Block	11,316	13,980	25,296	1,074	1,589		22,660				C. & O.
Peytona Block Coal Co.	Cannel	1,428	754	2,182				2,182				C. & O.
Hickory Ash Coal Co.	Hickory Ash No. 1-2-3	813	12,995	13,808				13,808				C. & O.
Anchor Coal Co.	Anchor	23,850	22,839	46,689	485	325		52,029				C. & O.
Webb Coal Mining Co.	Webb	43,137	61,226	104,363	990	270		103,103				C. & O.
Seng Creek Coal Co.	Blue Star	9,294	34,455	43,749	405	270		43,074				C. & O.
Total		123,012	206,167	329,179	3,600	4,522		321,057				
NICHOLAS COUNTY												
Saxman Coal & Coke Co.	Saxman Nos. 1-2	11,678	13,250	24,928	1,366		4,164	19,398	1,281	1,832	3,113	B. & O.
Saxman Coal & Coke Co.	Saxman No. 3	2,424	4,293	6,717				6,717				B. & O.
Pardee & Curtin Lumber Co.	Panther Creek	2,993	3,004	5,997		3,697						C. & O.
Pardee & Curtin Lumber Co.	Mayo	1,039	1,821	2,860		2,860						C. & O.
Greendale Collieries Co.	Greendale		5,933	5,933	26	60		5,847				C. & O.
Totals		17,834	28,301	46,135	1,392	8,617	4,164	31,962	1,281	1,832	3,113	

GREENBRIER COUNTY

Elk Lick Coal Co.		Spruce Knob	27,050	25,308	52,358	2&5	155	51,915	B. & O.
Total			27,050	25,308	52,358	2&5	155	51,915	
RALEIGH COUNTY									
Four States Coal & Coke Co.		Dorothy	161,177	134,540	295,717	4,291	1,152	290,274	C. & O.
Four States Coal & Coke Co.		Sartia	118,579	115,017	233,596			233,596	C. & O.
Four States Coal & Coke Co.		Leavale	31,775	36,009	67,784	830	275	66,679	C. & O.
Lanark Coal Co.		Lanark No. 4	29,791	29,273	59,064			58,563	C. & O.
New River Collieries Co.		Eccles Nos. 1-2	8,344	40,337	48,681	4,000	700	43,981	C. & O. & Va.
New River Collieries Co.		Eccles Nos. 3-4	33,531	74,004	109,595	7,200	2,400	99,995	C. & O. & Va.
New River Collieries Co.		Eccles No. 5	14,506	60,145	74,651	7,200	3,000	64,451	C. & O. & Va.
New River Collieries Co.		Eccles No. 6	24,119	66,036	90,155		1,000	89,155	C. & O. & Va.
McKell Coal & Coke Co.		Oswald Nos. 1-2	63,435	66,295	109,730		1,035	108,695	C. & O. & Va.
McKell Coal & Coke Co.		Graham Nos. 1-2	29,281	35,560	64,841		925	63,916	C. & O. & Va.
Piney Mining Co.		Piney Nos. 1-2	40,442	37,946	102,730	6,570	1,227	92,845	C. & O.
Piney Mining Co.		Piney No. 3	25,538	29,007	57,345	114	682	56,549	C. & O.
Piney Mining Co.		Piney No. 4	45,816	43,460	90,276			90,276	C. & O.
Raleigh Coal & Coke Co.		Raleigh Nos. 1-2-4	48,036	40,204	88,240	5,840		82,400	C. & O.
Raleigh Coal & Coke Co.		Raleigh No. 3	68,341	69,529	132,870			132,870	C. & O.
Raleigh Coal & Coke Co.		Raleigh No. 5	12,837	9,401	22,438			22,438	C. & O.
Raleigh Coal & Coke Co.		Raleigh No. 6	83,320	102,471	185,791			185,791	C. & O.
Blue Jay Lumber Co.		Blue Jay No. 4	25,399	19,933	43,332	200	2,000	41,132	C. & O.
Sullivan Coal & Coke Co.		Sullivan Nos. 1-2-3-4-5	55,122	56,428	111,550	1,500	1,059	108,991	C. & O.
Wood Peck Coal Co.		Wood Peck	1,417	6,308	7,725	40	40	7,645	C. & O.
New River Co.		Sprague	33,535	36,880	70,413	3,536	771	66,106	C. & O. & Va.
New River Co.		Cherry & Prosperity	56,706	68,815	125,611	8,237	2,914	114,460	C. & O. & Va.
New River Co.		Naascott	35,221	36,731	71,952			71,952	C. & O.
Beckley Coal Delivery Co.		Beckley Slope	63,767	56,181	119,948	3,027	1,610	114,711	C. & O.
City Coal Co.		Beckley	1,412	2,730	4,142		2,071	2,071	C. & O. & Va.
New River Co.		Combs	2,080	2,080	4,160			4,160	C. & O.
New River Co.		Price Hill	18,123	35,069	53,192	5,269	1,319	46,604	Virginian
Slab Fork Coal Co.		Slab Fork No. 1-2-3-4-5	130,662	162,074	292,736	3,000	1,732	278,004	Virginian
E. E. White Coal Co.		E. E. White Nos. 1-2-3	145,208	144,026	289,234	5,400	3,324	280,510	Virginian
Pemberton Coal & Coke Co.		Alinity	25,323	25,584	53,907	3,180	428	50,209	Virginian
Stonewall Coal Co.		Stonewall	10,854	14,782	25,636	500	100	25,036	C. & O.
Wright Coal Co.		Terry Nos. 1-2	29,906	24,070	53,976	700	100	53,176	C. & O.
Wright Coal Co.		Wright No. 1	17,184	17,284	34,468	500	300	33,668	C. & O.
Wright Coal Co.		Wright No. 2	27,151	22,887	50,038	300	200	49,538	C. & O.
E. E. White Coal Co.		E. E. White No. 3	50,548	68,908	119,756		1,005	118,748	C. & O.
Gulf Smokeless Coal Co.		Fams Nos. 1-2-3	199,106	202,175	401,281	6,000	1,500	393,781	C. & O. & Va.
MacAlpin Coal Co.		MacAlpin No. 1	117,238	116,312	233,550	1,200	1,208	231,142	Virginian
Bailey Wood Coal Co.		Bailey Wood No. 1	53,018	76,255	129,873	1,200	480	128,193	Virginian
Pemberton Coal & Coke Co.		Big Stick	34,070	41,874	76,544		470	76,074	Virginian
The Gulf Coal Co.		Gulf & Beaver	38,701	38,702	77,403	1,000	360	76,043	Virginian
Lynwin Coal Co.		Lynwin	32,000	48,000	80,000	360	366	79,274	Virginian
Winding Gulf Colliery Co.		Winding Gulf Nos. 1-2	59,501	74,212	133,713	2,700	1,011	129,402	C. & O. & Va.
Total			2,150,552	2,431,424	4,981,776	84,494	38,558	4,458,724	

*COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)*

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)		DISTRIBUTION OF COAL (Tons of 2,240 lbs.)					PRODUCTION OF COKE (Short Tons)		Railroad Located on		
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months		Total for Year	
MERCER COUNTY													
Coaldale Coal & Coke Co.	Coal Dale	59,480	54,483	113,963	641	399	16,716	96,207	5,713	5,992	11,705	N. & W.	
Mill Creek Coal & Coke Co.	East, West, West Fork, Tug River	102,038	46,679	197,717	705	530	32,808	163,584	11,320	11,648	22,968	N. & W.	
Buckeye Coal & Coke Co.	Buckeye, North & South	101,647	104,727	206,374	1,290	315	27,120	177,739	7,301	7,880	15,181	N. & W.	
Booth-Bowen Coal Co.	Booth Bowen	91,121	87,156	178,277	1,800	1,288	31,959	143,230	9,066	10,909	19,975	N. & W.	
Peachbortas Cons. Collieries Co.	Cassell Creek, Elkhorn and Hemlock	119,122	131,120	250,242	10,000	6,000		234,242				N. & W.	
Peachbortas Cons. Collieries Co.	Sagamore	96,366	111,015	207,381	3,000	6,000		198,581				N. & W.	
Peachbortas Cons. Collieries Co.	West	24,000	25,000	49,000				49,000				N. & W.	
Louisville Coal & Coke Co.	Louisville and Goodwill	100,483	91,155	191,638	4,338	2,068	23,611	161,621	7,166	8,572	15,738	N. & W.	
Godfrey Coal Co.	Cephus	7,909	9,466	17,375	20	45		17,310				N. & W.	
Crystal Coal Co.	Crystal No. 1	82,367	71,256	153,623	3,000	2,400	54,286	93,937	16,849	17,081	33,930	N. & W.	
Crystal Coal Co.	Crystal No. 2		17,361	17,361		300		17,061				N. & W.	
American Coal Co. of Allegheny Co.	Crane Creek	109,009	109,639	218,648	3,151	1,584	57,453	156,490	15,119	19,537	34,656	N. & W.	
American Coal Co. of Allegheny Co.	Pinnacle	100,862	96,954	197,816	2,239	1,212	8,918	180,447	93	4,954	5,047	N. & W.	
American Coal Co. of Allegheny Co.	Piedmont	48,189	37,041	85,230	2,625	580		82,025				N. & W.	
The Thomas Coal Co.	Thomas	60,312	70,572	130,884	3,600	720	42,801	82,760	15,000	15,000	30,000	N. & W.	
Thomas Coal Co.	Thomas Nos. 1-2	22,130	25,204	47,334	1,800	500		45,034				N. & W.	
Pawana Coal & Coke Co.	Pawana Nos. 1-2	47,233	33,171	100,404	800	965		98,579				N. & W.	
Weyanoke Coal & Coke Co.	Weyanoke and Ethu	62,740	63,956	126,696	4,254	1,606		120,806				N. & W.	
Smokeless Coal & Coke Co.	Smokeless	22,781	18,873	41,654		1,006		40,404				N. & W.	
Hawatha Coal & Coke Co.	Hawatha	52,359	48,663	101,022	609	2,000		98,422				N. & W.	
Spring Coal & Coke Co.	Spring	44,199	40,607	84,806		300		84,006				N. & W.	
Wenonah Coal & Coke Co.	Wenonah	31,288	34,633	65,921	3,650	3,700		59,421				N. & W.	
Totals		1,386,135	1,397,731	2,783,866	52,503	33,812	293,675	2,401,876	87,627	101,573	189,200		
McDOWELL COUNTY													
Alcona Coal & Coke Co.	Alcona	108,375	109,692	218,195	2,200	400	25,485	190,110	7,669	8,013	15,682	N. & W.	
Elk Ridge Coal & Coke Co.	Elk Ridge	82,028	77,392	159,400	1,580	1,920	23,840	131,850	6,019	11,580	17,599	N. & W.	
Gilliam Coal & Coke Co.	Gilliam	90,671	92,782	183,453	635	635	25,325	156,783	7,482	8,347	15,829	N. & W.	
Indian Ridge Coal & Coke Co.	Indian Ridge	59,062	56,191	115,193	710	680	4,462	113,837	375	375	750	N. & W.	
Roanoke Coal & Coke Co.	Roanoke	59,160	70,752	129,912	1,800	439	16,338	114,335	4,055	7,870	12,325	N. & W.	
Arlington Coal & Coke Co.	Arlington	68,580	71,694	140,274	627	414	25,075	114,157	7,077	10,109	17,186	N. & W.	
Greenbrier Coal & Coke Co.	Greenbrier	74,197	77,510	151,707	3,267	1,106	31,588	115,746	8,037	13,022	21,059	N. & W.	

McDowell	121,524	124,184	245,708	1,840	22,966	220,902	6,975	10,173	17,148	N. & W.
Ashtand & Montor	129,371	117,361	247,132	7,000	30,956	208,501	9,014	11,623	20,637	N. & W.
Peachontas Cons. Collieries Co.	64,803	59,800	121,603	8,000		111,603				N. & W.
Peachontas Cons. Collieries Co.	94,516	112,623	207,139	3,000	66,774	131,365	20,824	20,910	41,734	N. & W.
Delta	104,044	105,969	210,013	5,000		155,013				N. & W.
Shawokin	104,498	117,180	221,678	4,000	31,286	180,392	4,011	17,184	21,195	N. & W.
Peachontas Cons. Collieries Co.	139,341	129,618	268,959	4,000	90,080	168,879	24,700	27,340	56,300	N. & W.
Norfolk	97,688	109,145	196,233	3,000		188,233				N. & W.
Profe	95,522	98,770	191,292	4,000		185,292				N. & W.
Zeith Coal & Coke Co.	47,594	59,547	107,141	1,700		105,059				N. & W.
Elkhorn	93,291	54,232	177,525	2,150	24,294	140,750	9,268	9,216	18,454	N. & W.
Turkey Gap Coal & Coke Co.	165,971	151,725	317,696	4,000	102,130	210,266	33,492	30,516	64,008	N. & W.
Crozer Nos. 1-2	184,859	164,767	329,626	4,182	1,689	243,376	20,412	22,357	18,958	N. & W.
Houston Coal & Coke Co.	22,596	214,655	443,221	5,000	73,438	361,783	28,606	25,387	50,992	N. & W.
Upland Coal & Coke Co.	119,340	152,889	302,220	4,805	1,587	19,586	237,451	13,965	39,987	N. & W.
Powhatan	145,297	154,638	290,935	9,000	9,000	52,565	237,470	14,307	36,795	N. & W.
Lynchburg Coal & Coke Co.	115,142	122,612	237,154	5,000	2,400	42,484	12,733	13,820	26,553	N. & W.
Keystone Coal & Coke Co.	114,223	127,475	241,698	5,000	19,417	187,270	12,733	13,820	26,553	N. & W.
Pulaski Iron Co.	186,520	191,813	378,333	2,400	1,200	143,929	230,813	45,812	89,950	N. & W.
Eureka Coal & Coke Co.	110,971	115,477	226,448	4,000	2,500	32,733	187,215	9,795	20,426	N. & W.
Shawnee Coal & Coke Co.	147,500	164,590	164,590	1,800	600	22,515	139,675	6,909	7,149	N. & W.
Empire Coal & Coke Co.	117,550	132,085	249,835	2,902	644	40,341	195,948	12,546	14,058	N. & W.
Bottom Creek Coal & Coke Co.	67,572	143,316	143,316	4,500	22,533	119,463	7,681	8,449	16,130	N. & W.
Bottom Creek Coal & Coke Co.	39,619	45,271	85,890	1,000		84,790				N. & W.
Peerless Coal & Coke Co.	91,100	114,343	205,443	2,400	33,226	167,917	8,384	12,382	20,766	N. & W.
Tidewater Coal & Coke Co.	101,915	91,260	193,175	7,300		177,125				N. & W.
King	111,334	100,559	211,853	5,000	10,550	194,043				N. & W.
Cirrus No. 2	60,943	61,922	122,865	265		113,865				N. & W.
Virginia Fuel Co.	16,246	1,669	17,915	985		16,715				N. & W.
Dixon-Peachontas Fuel Co.	2,493	5,252	7,745	1,620		6,125				N. & W.
Middle States Coal & Coke Co.	29,608	27,676	57,184	2,160		53,824				N. & W.
Helena	116,059	113,401	229,460	7,925	24,376	196,481	8,096	9,023	17,119	N. & W.
Jed Coal & Coke Co.	78,939	39,906	118,845	1,550		107,865				N. & W.
Black Wolf Coal & Coke Co.	48,071	16,924	64,005	1,500	160	62,135				N. & W.
Pace Nos. 1-2-3	151,943	166,872	321,815	7,200	107,008	205,807	27,308	38,315	65,023	N. & W.
Central-Peachontas Coal Co.	17,921	4,142	22,063	150		21,913				N. & W.
Central No. 2	6,328	18,397	24,925	287		24,638				N. & W.
W. Va.-Peachontas Coal Co.	92,736	74,813	167,563	876		164,301				N. & W.
Jackie Nos. 1-2	916	1,315	2,231							N. & W.
United States Coal & Coke Co.	86,512	125,093	211,695	2,015	21,248	188,312				N. & W.
United States Coal & Coke Co.	73,256	78,604	151,316	2,558	21,047	90,375				N. & W.
United States Coal & Coke Co.	131,483	154,610	286,093	1,244		284,849				N. & W.
United States Coal & Coke Co.	83,061	84,027	167,091	1,338		165,733				N. & W.
United States Coal & Coke Co.	143,627	171,006	317,733	1,273	21,047	265,413				N. & W.
United States Coal & Coke Co.	120,368	146,911	268,911	1,507		265,434				N. & W.
United States Coal & Coke Co.	62,393	75,542	140,935	1,422	18,954	120,559				N. & W.
United States Coal & Coke Co.	198,760	236,515	438,275	3,720		431,555				N. & W.
United States Coal & Coke Co.	114,032	111,738	225,770	1,682		224,088				N. & W.
United States Coal & Coke Co.	167,330	179,543	346,873	2,368		334,505				N. & W.
United States Coal & Coke Co.	87,019	87,019	87,019	183		86,836				N. & W.

COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)		DISTRIBUTION OF COAL (Tons of 2,240 lbs.)				PRODUCTION OF COKE (Short Tons)			Railroad Located on	
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months		Total for Year
McDOWELL COUNTY—Continued												
Pocahontas Cons. Collieries Co.	Pocahontas No. 6	21,029	4,203	4,203		2,400		4,203				N. & W.
Pocahontas Smokeless Coal Co.	Pocahontas-Smokeless	22,219	26,834	48,463				46,063				N. & W.
Hempill Colliery Co.	Hempill	23,500	39,719	700	700			39,019				N. & W.
Welch Coal & Coke Co.	Welch	60,978	27,100	50,600		1,100		48,300				N. & W.
Oregon Coal Co.	Oregon Nos. 2-3	19,377	17,598	108,576		720		105,456				N. & W.
Standard-Pocahontas Coal Co.	Standard	4,500	13,480	18,080	3,600	400		14,080				N. & W.
Pando Coal Co.	Nos. 1-2	47,670	16,623	36,000	3,407	576		33,017				N. & W.
Superior Pocahontas Coal Co.	Blackstone No. 1	20,042	25,508	77,908				77,908				N. & W.
Superior Pocahontas Coal Co.	Davy Crockett No. 2	18,002	21,445	54,550	2,200	1,200		54,550				N. & W.
Superior Pocahontas Coal Co.	Helena No. 3	13,496	10,877	24,373				36,047				N. & W.
J. B. B. Coal Co.	J. B. B. No. 1	49,345	37,189	83,534		1,000		82,534				N. & W.
J. B. B. Coal Co.	J. B. B. No. 2	36,206	34,891	71,097		1,500		70,097				N. & W.
J. B. B. Coal Co.	J. B. B. No. 3	31,531	36,080	67,611				66,111				N. & W.
J. B. B. Coal Co.	J. B. B. No. 4	51,343	5,5482	106,825	7,300	2,000		97,525				N. & W.
Solvay Collieries Co.	Marytown	90,084	89,766	179,850	1,812	1,396		176,042				N. & W.
Solvay Collieries Co.	Big Sandy	39,487	58,163	117,650	1,242	1,174		115,234				N. & W.
Vaughn Coal & Coke Co.	Vaughan	19,000	10,000	20,000	500	300		19,200				N. & W.
Flanagan Coal Co.	Flanagan No. 1	9,837	13,566	23,343	12	105		23,226				N. & W.
Davy Pocahontas Coal Co.	War Creek No. 1 and Davy-Pocahontas No. 2	12,025	15,025	27,050		50		27,000				N. & W.
Premier Pocahontas Colliery Co.	Nos. 1-2-3-4	92,622	92,627	185,249	1,351	1,500		181,898				N. & W.
Virginia-Pocahontas Coal Co.	No. 1, East and West	59,821	41,358	101,179		539		100,640				N. & W.
Virginia-Pocahontas Coal Co.	No. 2, East & West	29,633	39,741	69,374				69,374				N. & W.
Virginia-Pocahontas Coal Co.	Nos. 3-4	38,394	41,674	80,068				80,068				N. & W.
Virginia-Pocahontas Coal Co.	No. 6, East & West	28,811	44,028	72,839	1,600	615		70,624				N. & W.
Columbus-Pocahontas Coal Co.	Caretta No. 5	47,020	63,020	110,040	1,800	240		108,000				N. & W.
Columbus-Pocahontas Coal Co.	Columbus-Pocahontas	6,006		6,006		300		5,700				N. & W.
Imperial Pocahontas Coal Co.	Imperial	1,894		1,894		100		1,794				N. & W.
Reynolds Mining Co.	Reynolds	3,000	4,000	7,000		500		6,500				N. & W.
Hurricane Branch Coal Co.	Hurricane Branch	5,375	5,375	10,750		700		10,050				N. & W.
Henrietta Pocahontas Coal Co.	Henrietta	3,863	7,955	11,818	56	80		11,688				N. & W.

Flat Top Coal Mining Co.	16,610	17,077	33,687	2,000	600	31,087			N. & W.
Hannon Coal Co.	6,780	5,762	12,542		200	12,342			N. & W.
Dry Fork Colliery Co.	53,440	40,362	102,802	1,000	400	101,402			N. & W.
Buchanan Coal Co.	3,412	4,416	7,828	320	275	7,253			N. & W.
Yukon-Pochontas Coal Co.	4,020	23,073	29,093		350	28,743			N. & W.
Johns Branch Coal Co.		4,623	4,623		25	4,598			N. & W.
War Creek Coal Co.	2,059	4,403	7,302		200	7,102			N. & W.
Excelsior	32,446	32,127	55,573	450	200	54,923			N. & W.
Pocahontas Domestic Coal Co.	18,342	22,840	41,222	127	188	41,034			N. & W.
New River & Poca. Cons. Coal Co.	67,685	61,494	129,182	11,091	1,819	127,371		24,336	N. & W.
Berwind No. 1	49,385	45,273	94,658	120	1,455	93,203			N. & W.
Berwind No. 2	43,738	43,169	88,907	66	180	88,727			N. & W.
New River & Poca. Cons. Coal Co.	73,532	14,164	27,696		1,200	26,496			N. & W.
Berwind No. 4	5,041	22,673	58,277	1,200	800	56,877			N. & W.
Lathrop	52,906	55,273	118,185	4,200		113,985			N. & W.
Mohawk									N. & W.
Totals	6,723,517	7,044,536	13,768,077	287,940	145,897	1,418,117	406,980	521,545	928,545
LOGAN COUNTY									
Coal River Coal & Coke Co.	7,730	17,116	24,846	600					C. & O.
Spurce Bend Coal Co.	1,315	18,810	20,125	785	510	18,830			C. & O.
Coal Valley Mining Co.	8,101	36,302	44,403	1,125	175	43,103			C. & O.
Miffin Coal Co.		13,615	13,615	50	200	13,365			C. & O.
Black Hawk Colliery Co.	6,110	8,400	14,510		110	14,400			C. & O.
Stone Branch Coal Co.	25,177	38,050	63,227	1,650	550	61,027			C. & O.
Guyandotte Coal Co.	21,943	22,297	41,240	843	436	42,901			C. & O.
E. R. Johnson Coal Mining Co.	24,000	16,000	40,000	4,000	3,000	32,400			C. & O.
Draper Coal & Coke Co.	14,390	26,000	40,990		8,950	32,040			C. & O.
H. T. Wilson Coal Co.	36,935	30,936	73,871	1,200		72,671			C. & O.
Fort Branch Coal Corporation	26,163	26,563	52,726	2,400	240	50,086			C. & O.
Price Coal Co.	36,189	24,763	60,952	753	247	59,952			C. & O.
Manitoba Coal Co.	27,968	33,458	61,426	2,489	392	58,545			C. & O.
Rex Coal & Coke Co.	43,467	31,633	75,100	536	297	73,967			C. & O.
Logan Coal Co.	32,014	37,092	69,106	1,336	534	67,236			C. & O.
Ethel Coal Co.	41,364	40,282	90,646	1,800	300	88,546			C. & O.
Monitor Coal & Coke Co.	109,078	116,811	225,889	3,600	736	221,553			C. & O.
Yuma Coal & Coke Co.	14,238	53,020	97,258	2,014	456	94,788			C. & O.
Gay Coal & Coke Co.	47,319	40,608	96,327	900	327	95,700			C. & O.
Shamrock Coal Co.	19,300	37,810	57,110		571	56,539			C. & O.
Corra Coal Co.	43,031	36,505	99,536		1,200	98,336			C. & O.
United States Coal & Oil Co.	256,299	223,332	479,631	7,448	14,008	458,175			C. & O.
United States Coal & Oil Co.	212,259	182,254	394,513	3,803	474	390,236			C. & O.
United States Coal & Oil Co.	140,134	97,152	237,286	796	216	236,274			C. & O.
United States Coal & Oil Co.	100,977	117,843	218,820	860	1,498	216,462			C. & O.
United States Coal & Oil Co.	106,657	108,883	215,540	1,299	129	214,112			C. & O.
United States Coal & Oil Co.	24,969	29,869	64,838	88		64,750			C. & O.
United States Coal & Oil Co.	17,520	30,545	48,065	31	357	47,677			C. & O.
United States Coal & Oil Co.	51,073	24,036	105,109	254	987	103,868			C. & O.
Manbar Coal Co.	1,148	8,269	9,417		638	8,759			C. & O.
Frendale Coal Co.	3,349	25,343	28,692	822	65	27,962			C. & O.

COAL AND COKE TONNAGE PRODUCED IN WEST VIRGINIA BY THE VARIOUS MINES IN THE DIFFERENT
COAL PRODUCING COUNTIES FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	PRODUCTION OF COAL (Long Tons)			DISTRIBUTION OF COAL (Tons of 2,240 lbs.)				PRODUCTION OF COKE (Short Tons)			Railroad Located on	
		1st Six Months	2nd Six Months	Total Coal Produced for Year	Used in Operation of Mine	Furnished Local Trade and Tenants	Used in Coke Ovens	Quantity Shipped from Mine	1st Six Months	2nd Six Months	Total for Year		
LOGAN COUNTY—Continued.													
	Araucoma	7,327	61,792	69,119	2,169	301		66,649				C. & O.	
	Kohinoor		5,500	5,500	200	100		5,200				C. & O.	
Total		1,358,144	1,704,889	3,243,033	44,151	38,027		3,160,255					
MINGO COUNTY.													
	Nauzatzuck	30,386	35,975	66,361	6,000	500		59,861				N. & W.	
	Gray Eagle		4,596	4,596		250		3,596				N. & W.	
	Chattahoochee	31,250	29,200	60,450	1,000	400		58,450				N. & W.	
	The Buffalo Collieries Co.	67,320	64,290	131,810	3,357	785		127,668				N. & W.	
	Howards Colliery Co.	48,581	50,587	99,168	1,200	500		97,468				N. & W.	
	Howard Junior Coal Co.	45,212	45,463	90,675	1,200	500		88,975				N. & W.	
	E. L. Sternberger Coal Co.	48,588	41,440	90,028	1,144	674		88,210				N. & W.	
	Williamson Coal & Coke Co.	48,727	50,213	98,940	2,160	600		96,180				N. & W.	
	Superior-Thacker Coal & Coke Co.	12,573	12,742	25,665	1,000	156		18,652				N. & W.	
	Crystal Black Coal & Coke Co.	21,302	27,142	48,444	1,500	360		47,288				N. & W.	
	The White Star Mining Co.	22,253	22,534	44,597	1,500	360		42,647				N. & W.	
	Great Bend Coal Co.	11,929	9,356	21,285	880	214		20,171				N. & W.	
	Marvin Coal Co.	20,000	20,874	41,474	1,250	774		39,450				N. & W.	
	Red Jacket Cons. Coal & Coke Co.	14,132	2,949	17,121		3,200		13,921				N. & W.	
	Red Jacket Cons. Coal & Coke Co.	25,945	16,672	42,618		37		40,181				N. & W.	
	Red Jacket Cons. Coal & Coke Co.	26,814	8,965	35,809		201		35,608				N. & W.	
	Red Jacket Cons. Coal & Coke Co.	30,112	23,084	53,196		656		53,196				N. & W.	
	Mitchell Branch	70,016	124,955	195,001	1,250	510		193,095				N. & W.	
	Magnolia Coal & Coke Co.	9,527	14,167	23,694	963	510		22,221				N. & W.	
	Thacker Coal & Coke Co.	102,125	102,125	204,250		3,000		201,250				N. & W.	
	Thacker Coal & Coke Co.	51,800	51,800	103,600		3,600		100,000				N. & W.	
	Thacker Coal & Coke Co.	25,000	25,000	50,000	10,000			40,000				N. & W.	
	Red Jacket Junior Coal Co.	88,843	96,403	185,246	1,800			181,646				N. & W.	
	Glen Alum Coal Co.	151,145	130,134	251,282	5,700	2,000		273,522				N. & W.	
	War Eagle Coal Co.	31,469	30,049	61,515				61,515				N. & W.	
	War Eagle Coal Co.	39,357	37,975	77,342	7,200	990		69,232				N. & W.	

Margaret Mining Co.	Margaret No. 1	33,422	27,031	60,453	800	400	59,233	N. & W.
Sycamore Coal Co.	Cinderella	40,321	59,979	100,300	2,250	825	97,225	N. & W.
Mary Helen Coal Co.	Mary Helen	35,455	24,285	59,740	1,357	375	58,008	N. & W.
Total		1,184,707	1,180,856	2,374,563	55,791	30,280	2,288,492	
WAYNE COUNTY								
East Lynn Coal Co.	East Lynn No. 1	19,450	28,680	48,130		888	47,242	N. & W.
Total		19,450	28,680	48,130		888	47,242	
Grand Totals		28,842,500	30,439,274	59,281,774	1,151,313	775,264	54,696,616	
Small Mines		150,000	150,000	300,000				
Grand Total for 1912		28,992,500	30,589,274	59,581,774	1,151,313	775,264	54,696,616	
Grand Totals for 1911		28,371,962	25,661,224	54,033,186	991,483	870,641	47,827,335	
Changes		* 620,538	* 4,928,050	* 5,548,588	* 162,830	* 95,380	* 6,869,281	
							† 109,798	
							† 701,350	

* Means increase over 1911.

† Means decrease under 1911.

Production of Coal in West Virginia by Geographical Districts.

FOR THE YEAR ENDING JUNE 30th, 1912.

(Tons of 2,240 lbs.)

Potomac District	1,959,580
Monongahela District	12,828,379
Wheeling District	1,719,180
Interior District	353,486
Kanawha-New River District.....	20,203,480
Norfolk & Western District.....	22,217,669
<hr/>	
Total Commercial Mines.....	59,281,774
Total Small Country Mines.....	300,000
<hr/>	
Grand Total	59,581,774

Production of Coal in West Virginia by Geographical Districts for the Year Ending June 30, 1912.

POTOMAC DISTRICT.

(Counties of Grant, Mineral, Tucker and Morgan.)

Davis Coal & Coke Company.....	1,436,770
Cumberland Coal Company	205,564
Mastellar Coal Company	82,945
Buffalo Creek-Cumberland Company	69,064
Abrams Creek Coal & Coke Company.....	44,827
Gleason Coal & Coke Company.....	42,810
Big Vein Coal Mining Company.....	27,000
Western Maryland Coal Company.....	26,044
Hamill Coal & Coke Company.....	24,419
Denman Coal Company	137
Total	1,959,580

MONONGAHELA DISTRICT.

(Counties of Barbour, Harrison, Marion, Monongalia, Preston, Randolph, Taylor and Upshur.)

Consolidation Coal Company.....	4,546,504
Jamison Coal & Coke Company.....	1,001,025
Hutchinson Coal Company.....	697,733
Elkins Coal & Coke Company.....	483,257
Federal Coal & Coke Company.....	451,032
Davis Colliery Company	366,333
Virginia & Pittsburg Coal & Coke Company.....	349,395
Davis Coal & Coke Company.....	347,549
Century Coal Company of West Virginia.....	294,472
Madeira-Hill-Clark Coal Company	283,344
Four States Coal & Coke Company.....	247,092
Rosemont Coal Company	236,306
Merchants Coal Company of Pennsylvania.....	211,792
New Central Coal Company.....	201,200
Harry B. Coal Company.....	194,524
Maryland Coal Company of West Virginia.....	187,775
Virginia Maryland Coal Corporation.....	183,570
Marshall Coal Company	176,753
Austen Coal & Coke Company.....	110,146
Preston County Coke Company.....	99,899
Marion Gas Coal Company.....	90,589
Pittsvein Coal Company	89,423
Lambert Run Coal Company.....	86,900
Corona Coal & Coke Company.....	86,869
Rosebud Fuel Company	83,649
Haywood Coal Mining Company.....	69,676
Harrison County Coal Mining Company.....	69,430
Fairmont & Baltimore Coal & Coke Company.....	67,197
Righter Coal Company	64,752
McGraw Coal Company	62,505
Dakota Coal & Coke Company.....	58,845
Central Fairmount Coal Company.....	55,989
O'Gara Coal Mining Company.....	55,585

Meriden Coal Mining Company.....	54,348
Vincent Coal Company	50,292
Kingwood Coal Company	48,760
Parker Run Coal & Coke Company.....	48,231
Pittsburg Steam Coal Company.....	46,873
T. B. Davis	45,007
Grafton Fuel Company	44,778
Byron Coal Company	43,806
Hamilton Coal & Coke Company.....	42,407
Short Line Coal Company.....	41,307
Luella Coal Company	39,516
Grafton Coal & Coke Company.....	36,218
Tygart's River Coal Company.....	35,661
Antler Coal Company	35,000
Gorman Coal & Coke Company.....	34,541
Fayette Coal Company	34,212
Harrison Coal Company	27,517
Brady Coal Company	26,251
National Coal Company	25,969
Red Rock Fuel Company.....	25,813
J. B. Jenkins Coal & Coke Company.....	25,685
Borgman Coal Company	25,325
Orr Coal Mining Company.....	24,025
The Monongah Fuel Company.....	23,748
Hero Coal & Coke Company.....	23,622
Winona Coal & Coke Company.....	22,340
Duquesne Coal Company	20,973
S. H. Jordan	20,099
Daniel Coal Company	20,041
Humphreys Collieries Company	18,824
Catawba Coal Company	16,140
Rich Mountain Coal Company.....	15,992
W. H. Green	15,000
Irona Coal Company	13,697
W. Va. Pulp & Paper Company.....	13,269
Sterling Coal Company, Ltd.	12,209
Sunnyside Coal Company	12,000
Phillips Coal Company	11,087
Kilarm Coal & Coke Company.....	10,625
Great Scott Coal Company.....	9,669
Buckhannon River Coal Company.....	8,778
Swiger Coal Company	8,567
Blue Ridge Coal Company.....	6,902
Midland Coal & Coke Company.....	6,737
Clarksburg Gas Company	6,101
Hiorra Coke Company	5,500
Laurel Creek Coal Company.....	5,436
Gage Coal & Coke Company.....	5,388
Barnard Coal Company	5,124
Hygrade Coal Company	3,894
Hite Coal & Coke Company.....	3,000
Newcomer Coal Company	2,500
Total	12,828,379

WHEELING DISTRICT.

(Counties of Brooke, Hancock, Marshall and Ohio.)

Hitchman Coal & Coke Company.....	302,812
West Virginia & Pittsburg Coal Company.....	300,459
Richland Coal Company	262,300

LaBelle Iron Works	216,682
Wheeling Steel & Iron Company.....	110,724
Beech Bottom Coal Company.....	99,831
Ben Franklin Coal Company.....	76,427
Mound Coal Company	71,400
LaBelle Coal Company	63,220
Glendale Coal Company	61,345
Elm Grove Coal Company.....	58,371
Whittaker-Glesner Coal Company	42,755
Pars Run Coal Company.....	34,000
Kunz Bros. & Miller.....	7,685
Peter Storch & Sons.....	7,600
J. S. Creighton	3,569
Total	1,719,180

INTERIOR DISTRICT.

(Counties of Braxton, Gilmer, Greenbrier and Lewis.)

Davis Colliery Company	197,876
Gilmer Fuel Company	55,026
Elk Lick Coal Company.....	52,358
Kroger Gas Coal Company.....	40,057
Copen Creek Coal Company.....	3,600
Braxton Coal & Coke Company.....	1,954
Katherine Coal Company	1,420
McCauley Coal Company	1,195
Total	353,486

KANAWHA-NEW RIVER DISTRICT.

(Counties of Clay, Fayette, Kanawha, Lincoln, Mason, Nicholas, Putnam, Boone and Raleigh.)

The New River Company.....	1,537,776
Cabin Creek Consolidated Coal Company.....	1,171,036
Sunday Creek Company	1,094,591
New River & Pocahontas Consolidated Coal Company.....	971,021
Boomer Coal & Coke Company.....	685,748
New River Collieries Company.....	647,176
McKell Coal & Coke Company.....	586,046
Four States Coal & Coke Company.....	529,313
Raleigh Coal & Coke Company.....	429,339
E. E. White Company.....	408,990
Gulf Smokeless Coal Company.....	401,281
Paint Creek Collieries Company.....	389,539
Cannelton Coal & Coke Company.....	341,110
Campbells Creek Coal Company.....	324,073
Loup Creek Colliery Company.....	303,570
West Virginia Colliery Company.....	300,969
Slab Fork Coal Company.....	282,736
Piney Mining Company	250,411
Wyatt Coal Company	240,118
MacAlpin Coal Company	232,550
M. B. Coal & Coke Company.....	211,437
Kellys Creek Colliery Company.....	209,114
The Marmet Coal Company.....	206,512
Black Betsy Coal & Mining Company.....	187,500
Imperial Colliery Company	186,900

The Otto Marmet Coal & Mining Company.....	184,534
The Gauley Mountain Coal Company.....	174,867
Winifrede Coal Company	172,424
Scotia Coal & Coke Company.....	164,640
Holly & Stephenson Coal & Coke Company.....	158,969
Solvay Collieries Company	155,614
The Low Moor Iron Company of Virginia.....	151,438
The Columbus Iron & Steel Company.....	151,062
Prudence Coal Company	145,468
Chesapeake Mining Company	141,524
The Star Coal & Coke Company.....	139,760
Carbon Coal Company	138,561
Milburn Coal & Coke Company.....	137,240
Plymouth Coal & Mining Company.....	134,436
Winding Gulf Colliery Company.....	133,713
Elk River Coal & Lumber Company.....	131,188
Pemberton Coal & Coke Company.....	130,451
Ephraims Creek Coal Company.....	130,216
Bailey Wood Coal Company.....	129,873
The Olcott Coal & Iron Company.....	128,333
Keeney's Creek Colliery Company.....	124,774
Republic Coal Company	123,957
Beechwood Coal & Coke Company.....	123,535
Wake Forest Mining Company.....	116,792
Coalburg Colliery Company	114,000
Greenwood Coal Company	112,567
Sullivan Coal & Coke Company.....	111,550
Hughes Creek Coal Company.....	107,993
Turkey Knob Coal Company.....	107,842
Sugar Creek Coal & Coke Company.....	107,266
Mecca Collieries Company	106,863
W. R. Johnson Coal Company.....	105,055
Webb Coal Mining Company.....	104,363
The Thurmond Coal Company.....	100,784
Hutchinson Coal Company	95,126
Nichol Colliery Company	91,989
Dry Branch Coal Company.....	90,029
South Side Company	89,685
Lynchburg Colliery Company	88,222
Wright Coal & Coke Company.....	84,506
Gauley Coal Company	84,092
Lynwin Coal Company	80,000
Stonewall Coal & Coke Company.....	79,612
Hemlock Hollow Coal & Coke Company.....	77,984
Standard Splint & Gas Coal Company.....	77,952
The Gulf Coal Company.....	77,403
Great Kanawha Colliery Company.....	77,090
The Mount Carbon Company, Ltd.	76,414
Blume Coal & Coke Company.....	74,345
Brown Coal Company	73,281
Clear Fork Coal Company.....	67,784
Fort Defiance Coal & Coke Company.....	65,000
The Coal River Company.....	63,779
Herbert Collieries Company	63,197
Laura Mining Company	62,643
Lanark Coal Company	59,064
Quinnimont Coal Company	57,889
St. Clair Colliery Company.....	57,070
Laurel Creek Coal Company.....	55,840
Quincy Coal Company	55,113
Standard Kanawha Mining Company.....	52,998

Anchor Coal Company	52,839
Sewell Colliery Company	50,950
Deitz Colliery Company	50,916
The Coalburg Kanawha Coal Company.....	49,354
Branch Coal & Coke Company.....	49,224
Ballinger Coal Company	45,377
Nuttallburg Smokeless Fuel Company.....	44,267
Seng Creek Coal Company.....	43,749
Blue Jay Lumber Company.....	43,332
Elk Manor Coal Company.....	42,768
Belmont Coal Company	40,602
Signal Knob Coal Company.....	40,353
Glade Coal Works	40,000
Manufacturers & Consumers Coal Company.....	39,988
Lewis Coal & Coke Company.....	37,944
Lookout Coal & Coke Company.....	37,039
Mill Creek Colliery Company.....	36,091
Beury Bros. Coal & Coke Company.....	36,023
Fire Creek Coal & Coke Company.....	35,651
Blue Creek Coal & Land Company.....	34,836
Rothwell Coal Company	34,594
Morris Fork Coal Company.....	33,023
Montgomery Coal Company	32,635
Virginia Coal Company	32,000
The Saxman Coal & Coke Company.....	31,645
Stone Cliff Coal & Coke Company.....	31,369
Queen Shoals Coal Company.....	30,024
Jackson Coal Mining Company.....	20,797
Dunglen Coal Company	29,600
Crown Hill-Kanawha Coal Company.....	28,467
Michigan Coal Company	28,435
Christian Colliery Company	28,000
Peytona Block Coal Company.....	27,478
Mt. Hope Coal & Coke Company.....	24,863
Meadow Fork Coal Company.....	23,607
Spruce River Coal Company.....	23,163
Alaska Coal & Coke Company.....	21,919
Glendale Colliery Company	20,268
The Clay Coal Company.....	20,000
Export Coal Company	19,624
G. M. Blume Estate.....	18,775
Southwestern Splint Fuel Company.....	17,096
Hartford Coal & Mining Company.....	14,454
Newlyn Coal Company	13,380
Hickory Ash Coal Company.....	13,808
Morris Creek Colliery Company.....	12,800
Southern Collieries Company	12,493
Big Bend Coal Company.....	10,850
Williams Coal Company	10,343
Villa Coal Mining Company.....	8,850
Pardee & Curtin Lumber Company.....	8,557
Wood Peck Coal Company.....	7,725
Greendale Collieries Company	5,933
Coopers Creek Coal Company.....	4,400
City Coal Company	4,160
Beckley Coal Delivery Company.....	4,142
East Bank Mining Company.....	3,000
Holliday Coal Company	2,000
Persinger Coal Company	1,841

Total 20,203,480

NORFOLK AND WESTERN DISTRICT.

(Counties of Logan, McDowell, Mercer, Mingo and Wayne.)

United States Coal & Coke Company.....	2,638,776
Pocahontas Consolidated Collieries Company.....	1,933,943
United States Coal & Oil Company.....	1,763,802
American Coal Company of Alleghany County.....	501,694
Houston Coal & Coke Company.....	443,221
Virginia-Pocahontas Coal Company	433,500
Pulaski Iron Company	378,333
Thacker Coal & Coke Company.....	357,850
Red Jacket Consolidated Coal & Coke Company.....	343,745
New River & Pocahontas Consolidated Coal Company.....	340,443
Crozer Coal & Coke Company.....	329,626
J. B. B. Coal Company.....	329,067
Page Coal & Coke Company.....	321,815
Turkey Gap Coal & Coke Company.....	317,696
Upland Coal & Coke Company.....	302,229
Powhatan Coal & Coke Company.....	299,935
Solvay Collieries Company	297,500
Glen Alum Coal Company.....	281,282
The Empire Coal & Coke Company.....	249,835
Ashland Coal & Coke Company.....	247,132
McDowell Coal & Coke Company.....	245,708
Keystone Coal & Coke Company.....	241,698
Lynchburg Coal & Coke Company.....	237,154
Middle States Coal & Coke Company.....	229,460
Bottom Creek Coal & Coke Company.....	228,206
Eureka Coal & Coke Company.....	226,448
The Monitor Coal & Coke Company.....	225,889
Algoma Coal & Coke Company.....	218,195
The King Coal Company.....	211,893
Buckeye Coal & Coke Company.....	206,374
Peerless Coal & Coke Company.....	205,443
Mill Creek Coal & Coke Company.....	197,717
Superior Pocahontas Coal Company.....	196,278
Tidewater Coal & Coke Company.....	193,175
Louisville Coal & Coke Company.....	191,638
Premier Pocahontas Collieries Company.....	185,249
Red Jacket, Junior, Coal Company.....	185,246
Gilliam Coal & Coke Company.....	183,453
Booth-Bowen Coal & Coke Company.....	178,277
Thomas Coal Company	178,218
Elkhorn Coal & Coke Company.....	177,525
Crystal Coal & Coke Company.....	170,984
West Virginia Pocahontas Coal Company.....	167,563
Shawnee Coal & Coke Company.....	164,590
Elk Ridge Coal & Coke Company.....	159,460
Greenbrier Coal & Coke Company.....	151,707
Arlington Coal & Coke Company.....	140,274
War Eagle Coal Company.....	138,850
The Buffalo Collieries Company.....	131,810
Roanoke Coal & Coke Company.....	129,912
Weyanoke Coal & Coke Company.....	126,696
Cirrus Coal & Coke Company.....	122,865
Jed Coal & Coke Company.....	118,845
Mohawk Coal & Coke Company.....	118,185
Indian Ridge Coal & Coke Company.....	115,193
Oregon Coal Company	108,576
Zenith Coal Company	107,141

Dry Fork Colliery Company.....	102,862
Hiawatha Coal & Coke Company.....	101,022
Pawama Coal & Coke Company.....	100,404
Sycamore Coal Company.....	100,300
Cora Coal & Coke Company.....	99,536
Howard Colliery Company.....	99,168
Williamson Coal & Coke Company.....	98,940
The Yuma Coal & Coke Company.....	97,258
The Gay Coal & Coke Company.....	96,927
Howard Junior Coal Company.....	90,675
Ethel Coal Company.....	90,646
E. L. Sternberger Coal Company.....	90,028
Spring Coal & Coke Company.....	84,806
Rex Coal & Coke Company.....	75,100
H. F. Wilson Coal Company.....	73,871
Aracoma Coal Company.....	69,119
Logan Coal Company.....	69,106
The James R. Shanklin Coal Company.....	66,361
Wenonah Coal & Coke Company.....	66,221
Dixon-Pocahontas Fuel Company.....	64,929
Black Wolf Coal & Coke Company.....	64,095
Stone Branch Coal Company.....	63,227
Manitoba Coal Company.....	61,426
Price Coal Company.....	60,952
Margaret Mining Company.....	60,453
Chattaroy Colliery Company.....	60,450
Mary Helen Coal Company.....	59,740
Shamrock Coal Company.....	57,110
Excelsior-Pocahontas Coal Company.....	55,573
Fort Branch Coal Corporation.....	52,726
Welch Coal & Coke Company.....	50,600
Pocahontas Smokeless Coal Company.....	48,463
Crystal Block Coal & Coke Company.....	48,444
East Lynn Coal Company.....	48,130
Central Pocahontas Coal Company.....	46,988
The White Star Mining Company.....	44,507
Coal Valley Mining Company.....	44,403
Guyandotte Coal Company.....	44,240
The Smokeless Coal & Coke Company.....	41,654
Marvin Coal Company.....	41,474
Pocahontas Domestic Coal Company.....	41,222
Draper Coal & Coke Company.....	40,990
E. R. Johnson Coal Mining Company.....	40,000
Hemphill Colliery Company.....	39,719
Lathrop Coal Company.....	38,277
The Pando Coal Company.....	36,000
Flat Top Coal Mining Company.....	33,687
Yukon Pocahontas Coal Company.....	29,093
Ferndale Coal Company.....	28,692
Davy Pocahontas Coal Company.....	27,050
Superior Thacker Coal & Coke Company.....	25,665
Coal River Coal & Coke Company.....	24,846
Magnolia Coal & Coke Company.....	23,694
Flanagan Coal Company.....	23,343
Great Bend Coal Company.....	21,285
Spruce Bend Coal Company.....	20,125
Vaughan Coal & Coke Company.....	20,000
Great Bend Coal Company.....	18,080
Virginia Fuel Company.....	17,915
Godfry Coal Company.....	17,375
Black Hawk Colliery Company.....	14,510

Mifflin Coal Company	13,615
Harmon Coal Company	12,542
Henrietta Pocahontas Coal Company.....	11,818
Hurricane Branch Coal Company.....	10,750
Manbar Coal Company	9,417
Buchanon Coal Company	7,828
War Creek Coal Company.....	7,362
Reynolds Mining Company	7,000
Columbus Pocahontas Coal Company.....	6,000
Kohinoor Coal & Coke Company.....	5,500
Johns Branch Coal Company.....	4,623
Gray Eagle Coal Company.....	4,596
Imperial Pocahontas Coal Company.....	1,894
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Total	22,217,669

*A COMPARATIVE STATEMENT OF THE PICK AND MACHINE
MINED COAL, BY COUNTIES, 1912.*

(Tons of 2,240 lbs.)

COUNTY	Tons of 2240 lbs.		
	Pick Mined Coal	Machine Mined Coal	Total Production
Brooke.....	58,222	621,970	680,192
Marion.....	1,852,713	2,980,939	4,833,652
Marshall.....	60,582	603,811	664,393
Ohio.....	18,651	355,944	374,595
Harrison.....	1,203,117	3,326,227	4,529,344
Lewis.....	40,057	.....	40,057
Upshur.....	18,065	19,026	37,091
Barbour.....	325,939	430,456	756,395
Monongalia.....	252,026	130,138	382,164
Preston.....	530,188	311,613	841,801
Taylor.....	334,456	394,844	731,300
Grant.....	72,715	116,192	188,907
Mineral.....	627,051	28,890	655,941
Randolph.....	604,520	22,112	716,632
Tucker.....	1,096,209	18,523	1,114,732
Braxton.....	188,830	14,600	203,430
Gilmer.....	2,615	55,026	57,641
Mason.....	1,545	137,832	139,377
Putnam.....	506,470	.....	506,470
Clay.....	8,007	173,956	181,963
Fayette.....	5,550,426	3,261,632	8,812,058
Kanawha.....	1,251,026	4,355,496	5,606,522
Boone.....	23,163	306,016	329,179
Nicholas.....	28,383	17,752	46,135
Greenbrier.....	52,358	.....	52,358
Raleigh.....	3,090,043	1,491,733	4,581,776
Mercer.....	2,310,015	473,851	2,783,866
McDowell.....	8,261,408	5,506,669	13,768,077
Logan.....	31,952	3,211,081	3,243,033
Mingo.....	323,829	2,050,734	2,374,563
Wayne.....	.....	48,130	48,130
Totals.....	28,814,581	30,467,193	59,281,774
Small mines.....	300,000	.....	300,000
Grand Totals.....	29,114,581	30,467,193	59,581,774

*COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED
COAL, BY COUNTIES, FOR THE YEAR ENDING JUNE 30, 1912.*

COUNTY	Number of Mines Using Machines	Number of Mine Machines	Tons of Coal Pro- ducing by Machine Mining (2240 lbs.)	Number of Machine Miners	Number of Machine Runners and Helpers	Total Number of Men Em- ployed by Machine Mining	Number of Pick Miners	Tons of Coal Pro- duced by Pick Mining (2240 lbs.)
Brooke.....	6	42	621,970	460	78	538	62	58,222
Marion.....	22	237	2,980,939	1,212	388	1,600	1,307	1,852,713
Marshall.....	5	28	603,811	432	58	490	51	60,582
Ohio.....	4	27	355,944	237	36	273	15	18,651
Harrison.....	46	277	3,326,227	1,467	451	1,918	879	1,203,117
Lewis.....							40	40,657
Upshur.....	1	3	19,026	22	4	26	57	18,065
Barbour.....	7	39	430,456	252	68	320	308	323,939
Monongahia.....	2	6	130,138	62	11	73	195	252,026
Preston.....	8	35	311,613	190	64	254	518	530,188
Taylor.....	6	28	396,844	237	32	269	245	334,456
Grant.....	1	27	116,192	10	16	26	31	72,715
Mineral.....	1	3	28,890	26	5	25	513	627,051
Randolph.....	1	2	22,112	20	4	24	448	694,520
Tucker.....	2	9	18,523	20	4	24	913	1,096,209
Braxton.....	2	3	14,600	20	6	26	152	188,830
Gilmer.....	1	6	55,026	40	12	52	14	2,615
Mason.....	3	10	137,832	145	20	165	10	1,545
Putnam.....							678	506,470
Clay.....	2	12	173,956	102	22	124	8	8,007
Fayette.....	62	298	3,261,632	2,350	513	2,863	4,448	5,559,426
Kanawha.....	87	387	4,355,496	3,192	696	3,807	1,090	1,251,026
Boone.....	7	20	306,016	211	34	245	25	23,163
Nicholas.....	2	5	17,752	26	19	45	46	28,383
Greenbrier.....							40	52,358
Raleigh.....	26	114	1,491,733	799	203	1,002	2,150	3,090,043
Mercer.....	7	33	473,851	340	55	395	1,465	2,310,015
McDowell.....	57	289	5,506,669	3,408	601	4,010	5,881	8,261,408
Logan.....	31	182	3,211,081	1,583	257	1,840	62	31,952
Mingo.....	24	182	2,050,734	862	253	1,115	228	323,829
Wayne.....	1	3	48,130	33	5	38		
Totals.....	424	2,307	30,467,193	17,752	3,945	21,697	21,897	28,814,581

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL, NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912.

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by Machines 2240 lbs.	Number of Machine Runners and Helpers	Total No. Employed Machine Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
BROOKE COUNTY.							
West Virginia & Pittsburgh Coal Co.	Number 3.	2	38,537	24	6		
West Virginia & Pittsburgh Coal Co.	Number 4.	6	22,032	60	10		
West Virginia & Pittsburgh Coal Co.	Loeust Grove.	9	226,796	120	18	15	13,074
Beech Bottom Coal Co.	Beech Bottom No. 1.	4	74,873	68	8	25	24,368
La Belle Coal Co.	Lewis No. 1	5	62,327	80	12	3	893
La Belle Iron Works	La Belle Shaft.	16	197,385	116	24	13	19,297
Total.		42	621,970	460	78	62	58,222
MARION COUNTY.							
The Consolidation Coal Co.	Consolidation No. 22	6	124,415	49	12	35	82,841
The Consolidation Coal Co.	Consolidation No. 24	7	67,162	22	10	28	53,356
The Consolidation Coal Co.	Consolidation No. 26	5	137,308	60	24	46	94,305
The Consolidation Coal Co.	Consolidation No. 28	6	25,941	19	3	36	57,280
The Consolidation Coal Co.	Consolidation No. 34	1	24,254	10	2	18	45,065
The Consolidation Coal Co.	Consolidation No. 36	3	14,923	9	8	50	117,735
The Consolidation Coal Co.	Consolidation No. 38	6	101,781	40	14	54	126,064
The Consolidation Coal Co.	Consolidation No. 43	8	137,381	56	11	67	104,324
The Consolidation Coal Co.	Consolidation No. 45	2	40,187	8	4	12	25,215
The Consolidation Coal Co.	Consolidation No. 47	2	94,363	50	12	62	36,637
The Consolidation Coal Co.	Consolidation No. 53	3	118,965	18	24	45	45,259
The Consolidation Coal Co.	Consolidation No. 56	8	157,447	85	14	90	39,818
The Consolidation Coal Co.	Consolidation No. 59	9	171,556	73	8	10	20,842
The Consolidation Coal Co.	Consolidation No. 63	3	57,059	20	4	35	42,741
The Consolidation Coal Co.	Consolidation No. 67					30	42,223
The Consolidation Coal Co.	Consolidation No. 68					80	140,465
The Consolidation Coal Co.	Consolidation No. 84					20	30,488
The Consolidation Coal Co.	Consolidation No. 82					1	919
Jamison Coal & Coke Co.	Jamison No. 7	20	308,851	90	52	142	137,465
Jamison Coal & Coke Co.	Jamison No. 8	28	339,005	125	52	177	
Jamison Coal & Coke Co.	Jamison No. 9	22	215,704	70	30	100	
New Central Coal Co.	Stafford	19	185,092	64	30	80	16,108
Federal Coal & Coke Co.	Federal No. 1.	33	325,437	103	38	141	125,595
Virginia & Pittsburgh Coal & Coke Co.	Kinmont					159	290,252
Virginia & Pittsburgh Coal & Coke Co.	Morgan					175	59,143
Parker Run Coal & Coke Co.	Parker Run	8	48,231	40	5	40	
Harry B. Coal Co.	Harry B Nos. 2-3-4-5				45	24	49,672

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL. NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912.—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by Machines 2240 lbs.	Number of Machine Miners	Number of Runners and Helpers	Total No. of Men Employed Machine Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
MARION COUNTY—Continued.								
Kilarn Coal & Coke Co.	Kilarn Nos. 1-2-3.						18	10,025
Pittsburg Steam Coal Co.	Elizabethtown						18	23,654
Catawba Coal Co.	Catawba						16	16,140
Dakota Coal & Coke Co.	Dakota	11	58,845	35	8	43		
Phillips Coal Co.	Phillips						10	11,087
Four States Coal & Coke Co.	Annabelle Nos. 1-2	26	247,092	157	48	205		
Robinson Coal Co.	James						8	7,105
Total		237	2,980,939	1,212	388	1,600	1,307	1,852,713
MARSHALL COUNTY								
Hitchman Coal & Coke Co.	Hitchman	12	302,812	180	26	206		
Wheeling Steel & Iron Co.	Benwood	4	94,227	62		70	10	16,407
Mound Coal Co.	Mound	4	69,000	70	8	78	2	2,400
Parr Run Coal Co.	Parr Run						30	34,000
Ben Franklin Coal Co. of W. Va.	Panama	4	76,427	75	8	83		
Kunz Bros. & Miller	Boggs Run						9	7,685
Glendale Coal Co.	Glendale	4	61,345	45	8	53		
Total		28	603,811	432	58	490	51	60,582
OHIO COUNTY								
Richmond Coal Co.	Richmond	20	258,100	170	26	196	2	4,200
Elm Grove Coal Co.	Elm Grove	4	51,520	35	4	39	9	6,851
Whittaker-Glessner Coal Co.	Carler	2	42,755	30		34		
J. S. Creighton	Creighton	1	3,569	2	2	4		
Peter Storck & Sons.	Storck						4	7,000
Total		27	355,944	237	36	273	15	18,051
HARRISON COUNTY								
The Consolidation Coal Co.	Consolidation Nos. 21- & 77.	11	139,296	52	20	72	30	5,232
The Consolidation Coal Co.	Consolidation No. 23	4	33,339	12	8	20	4	6,375
The Consolidation Coal Co.	Consolidation No. 25	12	144,971	62	10	72	25	58,393
The Consolidation Coal Co.	Consolidation No. 27	4	51,091	17	8	25	20	6,938
The Consolidation Coal Co.	Consolidation No. 29	11	19,954	13	4	17	32	49,633
The Consolidation Coal Co.	Consolidation No. 32	7	140,697	54	25	79	20	4,771

The Consolidation Coal Co.	Consolidation No. 33	2	28,894	10	2	12	15	16,881
The Consolidation Coal Co.	Consolidation No. 35	9	68,933	25	12	37	10	13,169
The Consolidation Coal Co.	Consolidation No. 39	2	31,927	15	4	19	19	18,458
The Consolidation Coal Co.	Consolidation No. 40	6	107,919	40	12	52	8	16,120
The Consolidation Coal Co.	Consolidation No. 42	4	58,421	16	15	31	20	1,527
The Consolidation Coal Co.	Consolidation No. 70	1	20,484	1	1	233	1	233
The Consolidation Coal Co.	Consolidation No. 44	1	20,484	10	2	12	1	1,846
The Consolidation Coal Co.	Consolidation No. 46	4	39,749	13	6	19	17	3,499
The Consolidation Coal Co.	Consolidation No. 48	7	63,212	27	9	35	17	10,818
The Consolidation Coal Co.	Consolidation No. 50	11	118,901	40	18	58	27	19,272
The Consolidation Coal Co.	Consolidation No. 49	5	72,275	30	10	40	9	57,002
The Consolidation Coal Co.	Consolidation No. 51	11	59,294	41	13	51	4	26,359
The Consolidation Coal Co.	Consolidation No. 52	4	31,231	16	8	24	4	9,073
The Consolidation Coal Co.	Consolidation No. 54	4	73,570	39	8	47	6	11,129
The Consolidation Coal Co.	Consolidation No. 55	2	36,192	20	4	24	10	11,165
The Consolidation Coal Co.	Consolidation No. 58	1	26,483	20	4	24	8	3,950
The Consolidation Coal Co.	Consolidation No. 60	3	30,345	16	4	20	7	14,017
The Consolidation Coal Co.	Consolidation No. 62	8	54,196	22	12	34	3	5,009
The Consolidation Coal Co.	Consolidation No. 64	5	47,120	19	10	29	1	2,433
The Consolidation Coal Co.	Consolidation No. 65	4	74,681	30	8	38	3	2,336
W. Md. Coal Corporation.	Willard Nos. 1-2	14	175,980	80	38	118	5	7,800
Harold		3	68,752	40	6	46	10	18,117
Snake Hill							32	55,989
Grassell		4	67,576	40	8	48	33	50,292
Monroe		12	229,264	75	18	93	6	2,100
Erte							10	6,300
York		3	43,957	25	6	31		
McCandlish		13	195,846	80	10	90		
Hutchinson		7	222,368	75	18	93		
Harrison County Coal Co.	Overholt	2	54,016	30	4	34	12	15,414
Lambert Run Coal Co.	Clauson	2	69,522	25	2	27	12	17,378
Righter Coal & Coke Co.	Righter						24	64,732
Hero Coal & Coke Co.	Hero						20	23,622
Blue Ridge Coal Co.	Thompson	1	49,307	10	2	12	8	6,902
Rosebud Fuel Co.	Rosebud No. 1	5	59,944	30	10	40	4	2,556
National Coal Co.	Rosebud No. 2						4	1,842
Fayette Coal Co.	National	5	23,400	20	8	28	25	25,969
Short Line Coal Co.	Fayette						7	10,812
Fairmont & Baltimore Coal & Coke Co.	Girard						25	41,307
Madera-Hill-Clark Coal Co.	Fairmore						50	67,197
Madera-Hill-Clark Coal Co.	Golf						43	75,084
Madera-Hill-Clark Coal Co.	Waldo	13	134,000	55	24	79	30	54,260
Madera-Hill-Clark Coal Co.	Randolph	2	10,500	7	4	11	4	9,500
Orr Coal Mining Co.	New Chieftain	1	5,739	12	2	14	15	18,286
O'Gara Coal Mining Co.	Miller Nos. 1-2	18	47,080	35	6	41	15	8,405
Duquesne Coal Co.	O'Gara	6	20,973	10	6	16	6	
Phoenix	Phoenix	4	97,097	48	8	56	26	47,755
Harry B. Coal Co.	Pitcairn							

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL, NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912.—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Pro- duced by Machines 2240 lbs.	Number of Machine Miners	Number of Machine Runners and Helpers	Total No. of Men Employed Machine Mining	Number of Pick Miners	Tons of Coal Pro- duced by Pick Mining
HARRISON COUNTY—Continued.								
Marshall Coal Co.	Marshall	14	114,560	70	26	96	40	62,183
Clarksburg Gas Coal Co.	McWhorter	2	6,101	10	2	12	2	3,027
Marion Gas Coal Co.	Bingamon	4	87,662	31	8	39	8	4,974
Daniel Coal Co.	Goecke No. 1						12	13,067
Daniel Coal Co.	Goecke No. 2						15	3,894
Hygrade Coal Co.	Page						25	23,748
The Monongah Fuel Co.	Gallhue						28	43,806
Byron Coal Co.	Althea						12	8,597
Swiger Coal Co.	Gillert						10	5,124
Barnard Coal C.	Burke							
Total		277	3,326,227	1,457	151	1,918	879	1,293,117
LEWIS COUNTY								
Kroger Gas Coal Co.	Polar						40	40,057
Total							40	40,057
UPSHUR COUNTY								
Red Rock Fuel Co.	Number 1	3	19,056	22	4	26	20	6,787
Newcomer Coal Co.	Newcomer						17	2,500
Buchannon River Coal & Coke Co.	Florence						20	8,778
Total		3	19,026	22	4	26	57	19,065
BARBOUR COUNTY								
Luella Coal & Coke Co.	Adma	6	54,348	40	5	45	7	1,360
Meridian Coal Mining Co.	Meridian Nos. 1-2	2	26,746	14	4	18	8	8,915
Tygart's River Coal Co.	Ardent	11	122,637	68	22	90	10	33,791
Consolidation Coal Co.	Consolidation No. 37						12	5,436
Laurel Creek Coal Co.	Laurel Creek						105	138,086
The Century Coal Co. of W. Va.	Century Nos. 1-2	13	156,386	96	26	122	40	11,318
Davis Coal & Coke Co.	Dartmoor No. 4	3	44,778	15	6	21	24	5,388
Grafton Fuel Co.	Lillian						30	5,185
Gage Coal & Coke Co.	Sara							
Davis Colliery Co.	Junior No. 4							
Midland Coal & Coke Co.	Midland	2	6,737	3	3	6		

Ludla Coal & Coke Co.	2	18,824	16	2	18	29	39,516
Humphreys Coal Co.						48	76,044
Davis Coal & Coke Co.						308	325,939
Total	39	130,456	252	68	320		
MONONGALIA COUNTY							
Pittsburg Steam Coal Co.						15	23,219
The Consolidation Coal Co.	2	6,236	7	3	10	37	51,418
Elkins Coal & Coke Co.						85	86,065
Elkins No. 1						13	17,436
Elkins No. 3						15	28,719
Elkins Coal & Coke Co.	4	123,902	55	8	63	31	9,669
Elkins No. 5						25	35,000
The Great Scott Coal & Coke Co.							
Grant							
Antler Coal Co.	6	130,138	62	11	73	195	252,026
Total							
PRESTON COUNTY							
The Austen Coal & Coke Co.	3	10,418	20	6	26	62	67,741
The Austen Coal & Coke Co.	3	14,929	5	6	11	15	21,058
Hamilton Coal & Coke Co.	2	10,002	10	4	11	50	31,805
Gorman Coal & Coke Co.	6	12,125	10	10	20	20	22,416
Merchants Coal Co.	7	172,010	90	16	106	30	39,782
Tunnelton						25	29,099
S. H. Jordan	6	48,760	35	6	41	15	3,000
Kingwood Coal Co.						85	126,177
Hite Coal & Coke Co.						21	19,222
Elkins Coal & Coke Co.	3	17,671	10	6	16	34	38,478
Elkins No. 2	5	25,098	10	10	20	83	99,899
Elkins Coal & Coke Co.						30	25,325
Preston County Coke Co.						30	5,500
Borman Coal Co.						38	13,697
Borman No. 1							
Vulcan							
Irona Coal Co.							
Total	35	311,613	190	64	254	518	530,188
TAYLOR COUNTY							
Grafton Coal & Coke Co.						35	36,218
Pittsview Coal Co.	2	59,339	50	4	54	25	33,0840
T. B. Davis						38	45,007
McGraw Coal Co.	5	61,012	25	4	29	2	1,463
Rosemont Coal Co.	3	76,584	40	4	44	90	150,722
Mt. Coal Co. of West Virginia	13	165,530	100	11	114	15	22,445
Winona Coal & Coke Co.	3	22,340	12	2	14		
Sterling Coal Co.	2	12,209	10	4	14		
Harrison						30	27,517
Sunnyside Coal Co.						20	12,000
Total	28	396,844	237	32	260	245	334,456

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL, NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by Machines 2240 lbs.	Number of Machine Runners and Helpers	Total No. of Men Employed in Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
GRANT COUNTY							
Davis Coal & Coke Co.	Henry No. 22	27	116,192	16	26	6	3,451
Buffalo Creek Cumberland Coal Co.	Buffalo Creek No. 1					25	69,064
Total		27	116,192	16	26	31	72,715
MINERAL COUNTY							
Davis Coal & Coke Co.	Elk Garden No. 6					24	50,076
Davis Coal & Coke Co.	Walash No. 9					32	16,179
Davis Coal & Coke Co.	Tyson No. 10					23	16,307
Davis Coal & Coke Co.	Kirtanning No. 14					55	74,551
Davis Coal & Coke Co.	Orr No. 20					27	31,781
Davis Coal & Coke Co.	Montgomery Run No. 19					63	84,668
Davis Coal & Coke Co.	Hampshire No. 50					26	32,818
Davis Coal & Coke Co.	Hampshire No. 51					45	101,079
Abrams Creek Coal & Coke Co.	Oakmont No. 1	3	28,800	5	25	12	15,937
Mastellar Coal Co.	Hampshire No. 1					12	12,435
Mastellar Coal Co.	Hampshire No. 2					41	42,503
Mastellar Coal Co.	Hampshire Six Foot					2	2,510
Hamill Coal Co.	Smith					21	25,497
Western Maryland Coal Co.	Walash 1-2-3-4-5					25	24,419
Gleason Coal & Coke Co.	Gleason					25	26,044
Big Vein Coal Mining Co.	Bakerstown					35	42,810
Denman Coal Co.	Black Diamond					35	27,000
Total		3	28,800	20	25	10	137
				5		513	627,051
RANDOLPH COUNTY							
Davis Coal & Coke Co.	Weaver No. 1					93	127,791
Davis Coal & Coke Co.	Weaver No. 2					75	131,496
Davis Colliery Co.	Coalton No. 1	2	22,112	4	21	80	179,720
Davis Colliery Co.	Sivad No. 2					35	38,776
Davis Colliery Co.	Harding No. 3					26	107,262
Davis Colliery Co.	Sivad No. 5					9	13,278
Brady Coal Co.	Klondyke					40	26,251
W. Va. Pulp & Paper Co.	Hopkins No. 1					15	13,269
J. B. Jenkins Coal & Coke Co.	Jenkins No. 1					35	25,685

W. H. Green.	Leroy No. 1					10	15,000
Rich Mountain Coal Co.	Hartbridge Nos. 1-2					20	10,568
Rich Mountain Coal Co.	Beech Creek					10	5,424
Total		2	22,112	20	4	448	694,520
TUCKER COUNTY							
Cumberland Coal Co.	Douglas No. 1					120	122,335
Cumberland Coal Co.	Douglas No. 2					54	65,027
Cumberland Coal Co.	Douglas No. 5					24	5,102
Davis Coal & Coke Co.	Douglas No. 23	8	12,500	10	2	100	145,244
Davis Coal & Coke Co.	Thomas No. 25	1	6,023	10	2	70	98,948
Davis Coal & Coke Co.	Thomas No. 28					10	2,418
Davis Coal & Coke Co.	Thomas No. 34					32	84,478
Davis Coal & Coke Co.	Thomas No. 39					31	25,496
Davis Coal & Coke Co.	Coketon No. 24					54	65,458
Davis Coal & Coke Co.	Coketon No. 26					33	36,974
Davis Coal & Coke Co.	Coketon No. 36					120	189,660
Davis Coal & Coke Co.	Coketon No. 37					41	73,934
Davis Coal & Coke Co.	Coketon No. 40					63	42,871
Davis Coal & Coke Co.	Francis No. 41					24	31,624
Davis Coal & Coke Co.	Bush No. 38					117	106,403
Total		9	18,523	20	4	913	1,096,209
BRAXTON COUNTY							
Davis Colliery Co.	Bower Nos. 7 & 10	2	11,000	11	4	86	121,853
Davis Colliery Co.	Copen No. 11					66	65,023
Copen Creek Coal Co.	Vanwith Nos. 1-2-3-4	1	3,600	9	2	11	1,954
Braxton Coal & Coke Co.	Braxton					6	1,954
Total		3	14,600	20	6	152	188,830
GILMER COUNTY							
Gilmer Fuel Co.	Gilmer	6	55,026	40	12	52	1,195
McCa Coal Co.	McCa					4	1,420
Katherine Coal Co.	Katherine					14	2,615
Total		6	55,026	40	12	66	1,195
MASON COUNTY							
Hutchinson Coal Co.	Linden	4	95,126	80	8	88	1,545
Jackson Coal Mining Co.	Jackson Furnace	3	28,252	35	6	41	1,545
Hartford Coal & Mining Co.	Hartford	3	14,454	30	6	36	1,545
Total		10	137,832	145	20	165	1,545
PUTNAM COUNTY.							
Plymouth Coal Mining Co.	Plymouth & Manila					183	134,436
Otto Marnet Coal & Mining Co.	Big Otto 1-2-3					225	184,534

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL, NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1917—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Pro- duced by Machines 2240 lbs.	Number of Machine Miners	Number of Machine Runners and Helpers	Total No. of Men Employed Machine Mining	Number of Pick Miners	Tons of Coal Pro- duced by Pick Mining
PUTNAM COUNTY—Continued.								
Black Betsy Coal Mining Co.	Black Betsy 1-2						270	187,500
Total							678	506,405
CLAY COUNTY								
Big Manor Coal Co.	Dorfee	5	42,768	38	8	46		
Elk River Coal & Lumber Co.	Rich Run	7	131,188	64	14	78		
Queen Shoals Coal Co.	Burnswell						8	8,007
Total		12	173,956	102	22	124	8	8,007
FAYETTE COUNTY								
Sunday Creek Co.	No. 111	5	120,222	82	12	94		23,170
Sunday Creek Co.	No. 112	9	208,533	130	14	144	13	17,586
Sunday Creek Co.	No. 114	5	92,331	71	10	81	20	13,210
Sunday Creek Co.	No. 115	8	231,014	135	20	176	10	34,161
Columbus Iron & Steel Co.	Columbus No. 1	8	116,901	69	14	83	23	17,236
W. R. Johnson Coal Co.	Kanawha Gas Nos. 1-2	3	45,097	35	6	41	30	20,850
W. R. Johnson Coal Co.	Oakland Nos. 1-2	6	14,537	78	12	90	80	12,003
Boomer Coal & Coke Co.	Boomer No. 1	9	312,295	253	28	281	75	82,414
Boomer Coal & Coke Co.	No. 3	6	182,509	87	12	99	2	46
Boomer Coal & Coke Co.	No. 4	6	81,924	94	12	106		
Pomeroy Coal & Coke Co.	Hickory Camp	3	20,155	20	6	26		
Point Creek Colliery Co.	Crescent Nos. 5-6	1	1,235	6	2	8	16	20,617
W. R. Johnson Coal Co.	Mecca Gas	2	16,364	16	4	20	15	15,572
Mecca Colliery Co.	Mecca Splint	2	15,142	10	4	14	3	12,709
Mecca Colliery Co.	Diamond	4	24,511	24	4	28	23	22,375
Great Kanawha Colliery Co.	Eureka No. 14						34	52,380
St. Clair Colliery Co.	St. Clair	3	52,968	38	6	44	4	4,104
M. B. Coal & Coke Co.	No. 3	4	44,666	30	6	36		
M. B. Coal & Coke Co.	Columbia Block No. 5	2	27,542	20	2	22		
M. B. Coal & Coke Co.	Elkridge No. 1	4	57,419	35	6	41	8	9,719
M. B. Coal & Coke Co.	Elkridge No. 2	4	57,987	35	6	41	8	14,104
The Mt. Carbon Co., Ltd.	Vulcan	4	37,218	10	4	14	60	39,196
Great Kanawha Colliery Co.	Great Kanawha						26	24,710
Long Creek Colliery Co.	Long Creek No. 2 Gas	6	13,947	20	13	33	157	289,633

Herbert Collieries	Fort Defiance	4	30,000	50	8	58	63,197
Fort Defiance Coal & Coke Co.	No. 2 Gas No. 5 Splint						35,000
Lynchburg Colliery Co.	No. 5 Splint						88,222
Gamco Coal Co.	No. 2 Gas No. 5 Splint						84,092
Deitz Colliery Co.	No. 1 Eagle No. 1 Powderlon	4	28,000	30	6	36	50,916
Christian Colliery Co.	Milburn No. 1	4	24,937	25	4	29	112,303
Milburn Coal & Coke Co.	Nos. 1 A & B						155,614
Solvay Collieries Co.	Mill Creek	12	36,001	30	20	50	85,561
Mill Creek Colliery Co.	Novia Scotia & Turkey Creek	23	89,303	50	20	70	40,353
Gauley Mountain Coal Co.	Signal Knob						28,435
Signal Knob Coal Co.	Michigan						39,988
Michigan Coal Co.	Newlyn	2	9,775	16	4	20	9,000
Manufacturers & Consumers Coal Co.	Fayette	5	22,359	20	10	30	50,922
G. M. Blume Estate	Brown	2	23,135	18	8	26	21,132
Brown Coal Co.	Nuttall						2,000
Nuttallburg Smokeless Fuel Co.	Keenys Creek	3	31,820	31	4	35	36,819
Holiday Coal Co.	Smokeless	3	24,352	19	4	23	31,783
Keenys Creek Colliery Co.	Boone						41,346
Keenys Creek Colliery Co.	Ballinger No. 1						4,031
Ballinger Coal Co.	Ballinger No. 2						7,839
Ballinger Coal Co.	Dutree	2	26,755	21	4	25	37,177
Rothwell Coal Co.	Blume	4	37,177	15	10	25	9,000
Blume Coal & Coke Co.	Lookout	3	28,039	20	6	26	35,651
Lookout Coal & Coke Co.	Fire Creek or Buffalo						45,308
Fire Creek Coal & Coke Co.	Caperton	2	5,642	6	4	10	36,023
Sewell Colliery Co.	Echo & Klondyke						10,850
Berry Bros. Coal & Coke Co.	Big Bend						31,369
Big Bend Coal Co.	Stone Cliff						78,330
Stone Cliff Coal & Coke Co.	Beechwood No. 1						45,205
Beechwood Coal & Coke Co.	Beechwood No. 2						21,019
Beechwood Coal & Coke Co.	Alaska	5	21,864	20	4	24	108,352
Alaska Coal & Coke Co.	Slater						19,024
Epiphram Creek Coal & Coke Co.	Export	1	2,499	10	4	14	53,641
Export Coal & Coke Co.	Laurel						20,298
Laurel Creek Coal Co.	Buck Lick						57,889
Glendale Colliery Co.	Big Q	2	12,567	10	4	14	100,000
Quinnimont Coal Co.	Greenwood	3	7,041	18	6	24	70,943
Greenwood Coal Co.	Hemlock						356,727
Hemlock Hollow Coal & Coke Co.	Layland Nos. 1-2-3-4	2					110,294
N. R. & P. Consolidated Coal Co.	Minden No. 2	5	40,520	21	10	31	79,332
N. R. & P. Consolidated Coal Co.	Minden No. 3	7	81,815	44	12	56	55,540
N. R. & P. Consolidated Coal Co.	Minden No. 4	6	97,103	60	12	72	26,461
N. R. & P. Consolidated Coal Co.	Minden No. 5	23	123,229	76	12	88	84,412
The Lowmoor Iron Co. of Va.	Kaymoor No. 1	3	51,907	35	25	60	10,794
The Lowmoor Iron Co. of Va.	Kaymoor No. 2	6	4,325	14	4	18	49,224
Branch Coal & Coke Co.	Elverton	2	10,964	9	2	11	78,721
South Side Co.	Southside						94,903
Thurmond Coal Co.	Thurmond No. 1						5,881
Thurmond Coal Co.	Thurmond No. 2						5

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL, NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by Machines 2240 lbs.	Number of Machine Miners	Number of Machine Runners and Helpers	Total No. of Men Employed Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
FAYETTE COUNTY—Continued.								
Scotia Coal & Coke Co.	Brooklyn.	4	13,678	12	8	20	45	41,037
Scotia Coal & Coke Co.	Red Ash.						26	35,336
Scotia Coal & Coke Co.	Rush Run & Onemore	6	15,000	16	6	22	45	64,589
Glade Coal Works.	Cliff Top Nos. 3-4	10	97,229	70	8	78	18	25,000
New River Collieries Co.	Sun Nos. 1-2-3						177	226,865
Dundlen Coal Co.	Dundlen						18	29,600
Newlyn Coal Co.	Newlyn.						20	13,380
Meadow Fork Coal Co.	Meadow Fork.	3	47,678	38	6	44	27	23,607
The Star Coal & Coke Co.	Star	1					67	92,082
Laura Mining Co.	Laura	3	21,100	12	4	16	33	62,643
McKell Coal & Coke Co.	Darryhale	3	80,439	35	4	39	35	70,416
Nichol Colliery Co.	Nichol	3	35,748	20	8	28	2	11,550
McKell Coal & Coke Co.	Kilsyth	4	37,098	15	6	21	150	190,139
Harvey Coal & Coke Co.	Harvey Nos. 1 & 2	2	7,000	5	2	7	42	65,000
Prudence Coal Co.	Prudence, Jones & Layman	1	12,230	20	10	30	140	138,468
White Oak Coal Co.	Winetown.	4	40,000	25	6	31	65	111,489
White Oak Coal Co.	Scarbro.	5	46,051	20	5	25	35	68,038
White Oak Fuel Co.	Whipple						20	25,000
White Oak Fuel Co.	Carlisle.	2	14,500	10	4	14	45	85,434
White Oak Fuel Co.	Oakwood.	2					31	60,684
Collins Colliery Co.	Collins Nos. 1-2	6	49,374	40	20	60	71	108,263
Stuart Colliery Co.	Parrall	5	69,863	25	6	31	13	33,320
Dunn Lumpy Coal & Coke Co.	Stuart or Lochgely.						110	178,666
Macdonald Colliery Co.	Klontyke						72	91,660
Sugar Creek & Coal Coke Co.	Macdonald						60	107,266
Turkey Knob Coal Co.	Sugar Creek Nos. 1-2-3	1					87	107,842
Mt. Hope Coal & Coke Co.	Turkey Knob						24	21,863
	Baby.							
Total.		298	3,261,632	2,350	513	2863	4,448	5,550,426
KANAWHA COUNTY								
Queen Shoals Coal Co.	Queen Shoals.						10	22,017
Morris Fork Coal Co.	Turner Nos. 1-2	4	33,023	38	8	46		
Clay Coal Co.	Bradley White Ash.						26	20,000
Villa Coal Mining Co.	Mill Creek						15	8,890
Blue Creek Coal & Land Co.	Wills Hollow Nos. 1-2	5	6,646	25	6	31		

Blue Creek Coal & Land Co.	Blakeley No. 3.	4	45,025	45	8	53	---
Standard Kanawha Coal Mining Co.	Standard No. 1	4	40,732	52	8	60	---
Standard Kanawha Coal Mining Co.	Standard No. 2	4	12,266	18	4	22	---
Williams Coal Co.	Williams No. 1	10	10,343	122	4	16	---
Campbells Creek Coal Co.	Campbells Creek No. 1	6	39,853	68	13	81	---
Campbells Creek Coal Co.	Campbells Creek No. 3	6	32,000	30	6	36	---
Virginia Coal Co.	Virginia No. 1	4	59,113	35	8	43	---
Quincey Coal Co.	Quincey Nos. 1-2	4	61,059	60	8	68	---
Sunday Creek Coal Co.	Sunday Creek No. 101	12	90,120	70	10	80	8,735
Sunday Creek Coal Co.	Sunday Creek No. 104	8	196,611	150	20	170	---
Sunday Creek Coal Co.	Sunday Creek No. 105	12	26,249	20	4	24	---
Kellys Creek Colliery Co.	Kellys Creek No. 1	10	182,825	130	18	148	---
Hughes Creek Coal Co.	Kellys Creek No. 3	3	107,993	101	20	121	---
Canadon Coal & Coke Co.	Nos. 2-3 Splint No. 4 Gas	8	73,278	150	12	102	264,046
Canamellon Coal & Coke Co.	Canamellon Nos. 1-2	1	1,786	4	2	6	---
Coopers Creek Coal Co.	Kanawha Thick Ven. No. 3	14	---	---	16	4,400	---
The Marinet Coal Co.	Pearcock	6	76,376	34	16	70	---
The Marinet Coal Co.	New Butler	6	52,302	40	12	52	---
The Marinet Coal Co.	Lens Creek	4	16,825	25	8	33	---
The Marinet Coal Co.	Black Band	7	61,009	60	14	74	---
The Olcott Coal & Iron Co.	Olcott No. 1	5	75,823	50	10	60	---
The Olcott Coal & Iron Co.	Olcott No. 2	3	52,480	35	6	41	---
Winifrede Coal Co.	North Mine	5	22,058	37	8	45	27,134
Winifrede Coal Co.	West	6	---	---	82	64,622	---
Winifrede Coal Co.	South	6	16,328	18	62	42,582	---
Dry Branch Coal Co.	Coalburg & Mt. Bryson	6	78,448	45	12	21	---
Dry Branch Coal Co.	Belmont No. 3	2	11,581	10	2	57	---
Dry Branch Coal Co.	Ronda	8	114,000	60	14	74	---
Wyatt Coal Co.	Horton No. 1	3	60,709	60	10	70	---
Wyatt Coal Co.	Horton No. 2	4	47,818	34	7	41	---
Wyatt Coal Co.	Oakley	4	16,807	31	7	40	---
Wyatt Coal Co.	Berlin	5	41,749	31	8	39	---
Lewis Coal & Coke Co.	Lewisston & Peerless	5	37,944	70	8	78	43,034
The Persinger Coal Co.	Wilton	1	1,841	12	4	16	---
Southern Collieries Co.	Lamont No. 3	5	12,493	17	3	20	---
Holley-Stephenson Coal & Coke Co.	Stephenson No. 5	4	72,283	50	6	56	---
Holley-Stephenson Coal & Coke Co.	Stephenson No. 2	5	68,529	50	8	58	---
Wake Forest Mining Co.	Wake Forest	5	116,792	60	10	70	17,557
Carbon Coal Co.	Carbon No. 3	2	---	---	14	16,866	---
Carbon Coal Co.	Carbon Gas	2	14,021	14	4	18	---
Carbon Coal Co.	Carbon Splint	2	78,779	41	8	49	---
Carbon Coal Co.	Low Sulphur No. 4	1	14,189	6	2	4	---
Republic Coal Co.	Republic No. 1	1	30,542	5	2	7	9,162
Republic Coal Co.	Republic No. 2	1	---	---	15	12	40,140
Republic Coal Co.	Republic No. 3	1	22,052	10	2	15	17,167
Republic Coal Co.	Republic No. 5	2	4,894	12	2	14	---
West Virginia Colliery Co.	Number 1	3	38,785	20	4	24	64,610
West Virginia Colliery Co.	Number 2	2	22,198	10	4	14	1,279
West Virginia Colliery Co.	Number 3	4	117,658	60	8	68	---

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL. NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912.—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by 2240 lbs. Machines	Number of Machine Miners	Number of Machine Runners and Helpers	Total No. of Men Employed Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
<i>KANAWHA COUNTY—Continued.</i>								
West Virginia Colliery Co.	Number 4	4	44,383	24	4	28	8	12,056
Cabin Creek Con. Coal Co.	Davis	4	65,334	26	8	34	2	4,246
Cabin Creek Con. Coal Co.	Cherokee	3	38,111	13	10	23	5	6,011
Cabin Creek Con. Coal Co.	Caledonia	3	23,258	10	6	14		
Cabin Creek Con. Coal Co.	Red Warrior	4	31,126	10	8	18		
Cabin Creek Con. Coal Co.	Buckeye	4	53,566	21	8	29	1	571
Cabin Creek Con. Coal Co.	Empire	3	37,305	18	6	24		
Cabin Creek Con. Coal Co.	Black Tulip	4	48,136	19	8	27	2	843
Cabin Creek Con. Coal Co.	Keystone	2	8,862	3	5	7	16	28,868
Cabin Creek Con. Coal Co.	Acme	1	28,404	14	4	18		
Cabin Creek Con. Coal Co.	Shamrock	3	71,500	27	10	37		
Cabin Creek Con. Coal Co.	Thistle	1	5,082	17	2	19	26	49,103
Cabin Creek Con. Coal Co.	Raccoon Gas	1	46,091	17	8	25	1	139
Cabin Creek Con. Coal Co.	Raccoon No. 2 East & West	6	91,833	38	12	50	2	3,070
Cabin Creek Con. Coal Co.	Rose	5	61,069	25	10	35	1	14,189
Cabin Creek Con. Coal Co.	Kayford	6	94,323	36	12	48	11	26,265
Cabin Creek Con. Coal Co.	Holly	5	22,359	8	10	18	5	9,732
Cabin Creek Con. Coal Co.	Quarrier	5	30,622	6	10	16	16	25,768
Cabin Creek Con. Coal Co.	United Gas	4	49,213	16	8	24		
Cabin Creek Con. Coal Co.	United Splint	4	16,081	9	8	17	11	23,195
Cabin Creek Con. Coal Co.	Belchare	3	34,367	13	6	19		
Cabin Creek Con. Coal Co.	Ruby	4	70,167	56	6	62		
Cabin Creek Collieries Co.	Reynolds							
Cabin Creek Collieries Co.	Knickerbocker						56	42,910
Cabin Creek Collieries Co.	Scranton	5	13,777	35	6	41	3	2,880
Cabin Creek Collieries Co.	Paint Creek	6	70,061	60	10	70	8	3,708
Cabin Creek Collieries Co.	Wacomah	2	15,194	21	4	25	32	12,964
Cabin Creek Collieries Co.	Banner Nos. 1-2	4	35,676	48	8	56		
Cabin Creek Collieries Co.	Detroit	3	5,911	6	6	12	14	10,627
Cabin Creek Collieries Co.	Morton No. 1	1	770	2	2	4	10	7,274
Cabin Creek Collieries Co.	Gross Nos. 1-2	4	39,076	36	8	44	44	36,289
Cabin Creek Collieries Co.	A & B	*5	49,354	60	8	68		
Cabin Creek Collieries Co.	Black Cat	3	17,096	32	4	36		
Southwestern Splint Fuel Co.	Belmont & Cedar Grove	3	40,692	52	10	62		
Crown Hill Kanawha Coal Co.	Number 8	5	28,405	61	8	69		
Standard Splint & Gas Coal Co.	Standard	5	51,942	50	10	60	30	26,010

Imperial Colliery Co.	0	69,300	35	12	35	13	30,000
Imperial No. 1	4	67,400	25	8	47	10	20,000
Imperial Nos. 1 & 3	6	75,221	65	12	77	10	8,608
Chesapeake Mining Co.	3	39,751	43	12	55	21	17,944
Chesapeake Gas	3					49	32,635
Montgomery Coal Co.						12	3,000
Morris Creek Colliery Co.	4	12,800	30	6	36		
Kanawha No. 5 Block							
East Bank							
Totals	387	4,355,496	3,192	696	3,807	1,090	1,251,026
BOONE COUNTY.							
Coal River Coal Co.							
The Spruce River Coal Co.	3	63,779	35	6	41	25	23,163
Number 2							
The Peytona Block Coal Co.	3	25,296	30	4	34		
The Peytona No. 1	1	2,182	5	2	7		
The Hickory Ash Coal Co.	4	13,808	25	6	31		
The Hickory Ash Nos. 1-2-3							
Anchor Coal Co.	3	52,839	35	4	39		
Anchor	3	104,363	50	6	56		
Webb Coal Mining Co.	3	43,749	31	6	37		
Webb							
Blue Star							
Totals	20	306,016	211	34	245	25	23,163
NICHOLAS COUNTY							
The Saxman Coal & Coke Co.	3	13,758	20	15	35	21	11,470
The Saxman No. 3						11	6,717
Panther Creek						5	3,697
Pardee Curtin Lumber Co.						3	2,860
Honny or Mayo							
Greendale	2	3,994	6	4	10	6	1,539
Totals	5	17,752	26	19	45	46	28,383
GREENBRIER COUNTY							
Elk Lick Coal Co.						40	52,358
Totals						40	52,358
RALEIGH COUNTY							
Four States Coal Co.	7	234,903	99	16	115	23	60,814
Four States Coal Co.	6	200,226	90	10	100	16	33,570
Clear Fork Coal Co.	2	67,784	36	6	42		
Stonewall Coal & Coke Co.						30	25,636
Stonewall Coal & Coke Co.						40	53,976
Stonewall Coal & Coke Co.						40	34,468
Wright Coal & Coke Co.						45	50,038
Wright Coal & Coke Co.						50	59,064
Lanark Coal Co.						20	28,294
New River Collieries Co.	3	20,387	20	10	30	25	32,815
New River Collieries Co.	7	76,780	68	20	88	32	16,335
New River Collieries Co.	5	58,316	57	12	69	46	56,056
New River Collieries Co.	3	34,090	55		61		
McKell Coal & Coke Co.	7	50,988	30	12	50	48	58,742

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL. NUMBER OF MINE MACHINES
USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by 2240 lbs.	Number of Machine Runners and Helpers	Total No. of Men Employed Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
RALEIGH COUNTY—Continued.							
McKell Coal & Coke Co.	Graham Nos. 1-2	4	21,681	4	14	35	43,160
McKell Coal & Coke Co.	Tanroy	5	31,362	6	36	45	62,710
Piney Mining Co.	Piney Nos. 1-2	2	10,826	5	15	130	91,964
Piney Mining Co.	Piney No. 3					48	57,345
Piney Mining Co.	Piney No. 4	1	9,997	2	12	52	80,279
Raleigh Coal & Coke Co.	Raleigh Nos. 1-2-4	2	19,440	4	10	40	68,800
Raleigh Coal & Coke Co.	Raleigh No. 3	4	34,560	16	24	50	98,310
Raleigh Coal & Coke Co.	Raleigh No. 5					12	22,438
Raleigh Coal & Coke Co.	Raleigh No. 6	4	47,940	25	33	68	137,851
Blue Jay Lumber Co.	Blue Jay No. 4					34	43,332
Sullivan Coal Co.	North & South					141	111,550
Wood-Peck Coal Co.	Wood-Peck	5	90,000	32	42	12	7,725
Cranberry Fuel Co.	Cranberry & Prosperity			10		63	65,611
Cranberry Fuel Co.	Sprague	3	57,948	15	35	45	71,952
Maliscott Coal & Coke Co.	Maliscott					65	62,000
Beechley Coal & Coke Co.	Beechley Slope					5	4,142
Beechley Coal Delivery Co.	Beechley Slope					8	4,160
City Coal Co.	City Coal	10	25,192	9	15	33	28,000
Price Hill Fuel Co.	Price Hill	9	61,173	35	4	156	221,503
Slab Fork Coal Co.	Nos. 1-2-3-4-5	4	41,600	19	6	102	247,634
E. E. White Coal Co.	Nos. 1-2	3	53,907	25	31		
Pemberton Coal & Coke Co.	Pemberton No. 1	1	85,439	5	7	81	34,317
E. E. White Coal Co.	Stotsbury No. 3	2	6,000	10	12	140	395,281
Gulf Smokeless Coal Co.	Tames	6	12,472	10	4	140	221,078
McAlpin Coal Co.	McAlpin No. 1					63	129,873
Bailey Wood Coal Co.	Bailey Wood No. 1					40	76,544
Pemberton Coal & Coke Co.	Big Stick	2	35,000	14	18	25	42,403
The Gulf Coal Co.	Gulf & Beaver	7	133,713	50	65	59	80,000
Lynwin Coal Co.	Lynwin						
Winding Gulf Colliery Co.	Winding Gulf Nos. 1-2	114	1,491,733	799	1,002	2,150	3,090,043
Total.							
MERCER COUNTY							
Coaldale Coal & Coke Co.	Coaldale					84	113,963
Mill Creek Coal & Coke Co.	East, West, W. Fork, Tug River.					98	197,717
Buckeye Coal & Coke Co.	Buckeye					110	206,374

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL. NUMBER OF MINE MACHINES USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by Machines 2240 lbs.	Number of Machine Miners	Number of Machine Runners and Helpers	Total No. of Men Employed Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
McDOWELL COUNTY—Continued.								
Shawnee Coal & Coke Co.	Shawnee						165	164,590
Empire Coal & Coke Co.	Empire	2	23,000	9	2		225	219,835
Bottom Creek Coal & Coke Co.	Bottom Creek No. 1	3	67,890	32	4	11	105	120,316
Bottom Creek Coal & Coke Co.	Bottom Creek No. 2	2	26,476	26	10	36	20	17,000
Peerless Coal & Coke Co.	Peerless	1	705	6	2	8	104	178,967
The Tulewater Coal & Coke Co.	Tulewater	2	1,493	12	4	16	125	192,380
The King Coal Co.	King						120	210,400
Cirrus Coal & Coke Co.	Cirrus No. 2						125	122,855
Virginia Fuel Co.	Virginia						20	17,915
Dixon Pocahontas Fuel Co.	North	3	7,745	20	4	24		
Dixon Pocahontas Fuel Co.	South	3	46,718	18	4	22	14	16,466
Middle States Coal & Coke Co.	Helena	6	220,460	125	8	133		
Jed Coal & Coke Co.	Jed	7	118,845	25	6	31		
Black Wolf Coal & Coke Co.	Black Wolf	4	64,065	30	8	38		
Page Coal & Coke Co.	Page Nos. 1-2-3	3	64,363	16	2	18	190	257,452
Central Pocahontas Coal Co.	Number 1						20	22,063
Central Pocahontas Coal Co.	Number 2	3	41,530	40	6	46	14	24,925
W. Va. Pocahontas Coal Co.	Leckie Nos. 1-2						80	126,033
U. S. Coal & Coke Co.	Number 1						2	2,231
U. S. Coal & Coke Co.	Number 2	8	185,083	138	20	158	40	26,522
U. S. Coal & Coke Co.	Number 3	8	149,906	89	20	109	1	1,404
U. S. Coal & Coke Co.	Number 4	8	182,557	105	20	125	90	103,536
U. S. Coal & Coke Co.	Number 5	4	116,719	62	10	72	51	50,372
U. S. Coal & Coke Co.	Number 6	8	223,311	122	20	142	60	94,322
U. S. Coal & Coke Co.	Number 7	7	201,449	142	16	158	50	65,492
U. S. Coal & Coke Co.	Number 8	5	101,740	73	12	85	30	39,195
U. S. Coal & Coke Co.	Number 9	11	434,099	266	25	291	2	1,176
U. S. Coal & Coke Co.	Number 10	9	225,770	165	20	185		
U. S. Coal & Coke Co.	Number 11	9	346,873	142	25	167		
U. S. Coal & Coke Co.	Number 12	6	87,019	110	25	135		
Pocahontas Collieries Co.	Pocahontas No. 6	3	4,293	25	6	31		
Pocahontas Smokeless Coal Co.	Pocahontas Smokeless						70	48,463
Hemphill Colliery Co.	Hemphill	3	21,119	18	6	24	10	16,600
Welch Coal & Coke Co.	Welch	3	26,500	14	6	20	20	24,100
Oregon Coal Co.	Oregon Nos. 2&3	12	81,435	30	20	50	25	27,141
Standard Pocahontas Coal Co.	Standard	5	18,180	18	4	22		
Pando Coal Co.	Pando Nos. 1-2	3	36,000	25	6	31		

Superior Pocahontas Coal Co.	Blackstone No. 1								40	77,908
Superior Pocahontas Coal Co.	Davy Crockett No. 2								45	54,550
Superior Pocahontas Coal Co.	Helena No. 3								30	39,447
Superior Pocahontas Coal Co.	Clutus No. 4									
J. B. B. Coal Co.	J. B. B. No. 1	2	24,373	12				4	16	
J. B. B. Coal Co.	J. B. B. No. 2	9	23,063	20				18	38	59,931
J. B. B. Coal Co.	J. B. B. No. 3	12	41,708	20				24	44	29,389
J. B. B. Coal Co.	J. B. B. No. 4									67,611
Solvay Collieries Co.	Marytown	17	81,232	30				38	68	25,593
Solvay Collieries Co.	Big Sandy									179,850
Vaughan Coal & Coke Co.	Vaughan	6	37,650	10				10	20	80,000
Flanagan Coal Co.	Flanagan No. 1									20,000
Davy Pocahontas Coal Co.	No. 1 War Creek No. 2 Davy									23,343
Premier Pocahontas Collieries Co.	Nos. 1-2-3-4									27,050
Virginia Pocahontas Coal Co.	No. 1 East & West									186,249
Virginia Pocahontas Coal Co.	No. 2 East & West									101,179
Virginia Pocahontas Coal Co.	Nos. 3-4-1-1 1/2									69,374
The Columbus Pocahontas Coal Co.	No. 6 East & West	7	72,839	40				11	54	80,068
Virginia Pocahontas Coal Co.	Columbus									
Virginia Pocahontas Coal Co.	Caretta	5	110,040	45				8	53	6,000
Imperial Pocahontas Coal Co.	Imperial									
Reynolds Mining Co.	Reynolds									
Hurricane Branch Coal Co.	Hurricane Branch									
Henrietta Pocahontas Coal Co.	Henrietta									
Flat Top Coal Mining Co.	Thomas	1	3,368	3				1	4	1,894
Harmon Coal Co.	Harmon No. 1									7,000
Dry Fork Colliery Co.	Dry Fork									10,750
Buchannon Coal Co.	Buchannon									11,818
Yukon Pocahontas Coal Co.	Yukon									30,319
Johns Branch Coal Co.	Numier 1									12,542
War Creek Coal Co.	War Creek No. 1									102,802
Excelsior Pocahontas Coal Co.	Excelsior	3	55,573	30				6	36	21,093
Pocahontas Domestic Coal Co.	Scorpion									4,023
New River & Pocahontas Con. Coal Co.	Berwin No. 1	6	77,252	38				20	58	41,222
New River & Pocahontas Con. Coal Co.	Berwin No. 2	6	61,418	39				13	52	51,930
New River & Pocahontas Con. Coal Co.	Berwin No. 3	6	64,728	40				14	52	33,210
New River & Pocahontas Con. Coal Co.	Berwin No. 4	2	27,096	24				7	51	24,179
Lathrop Coal Co.	Lathrop	2	38,277	30				4	27	
Mohawk Coal & Coke Co.	Mohawk	7	118,185	42				14	56	
Total		239	5,506,669	3,408				601	4,010	8,261,408
LOGAN COUNTY										
Coal River Coal & Coke Co.	Dolra	2	22,046	19				4	23	2,800
Spring Bend Coal Co.	Sharpless	4	20,125	20				4	24	
The Coal Valley Mining Co.	Sylvia	5	44,403	25				6	31	
Mifflin Coal Co.	Mifflin No. 1	7	13,063	24				4	28	552
Black Hawk Colliery Co.	Black Hawk									
Stone Branch Coal Co.	Stone Branch No. 8	6	63,227	45				10	55	14,510

COMPARATIVE STATEMENT OF THE PICK AND MACHINE MINED COAL. NUMBER OF MINE MACHINES USED AND THE NUMBER OF MEN EMPLOYED FOR THE YEAR ENDING JUNE 30th, 1912—(Continued.)

NAME OF COMPANY	NAME OF MINE	Number of Mine Machines	Tons of Coal Produced by Machines 2240 lbs.	Number of Machine Miners	Number of Machine Runners and Helpers	Total No. of Men Employed Machine Mining	Number of Pick Miners	Tons of Coal Produced by Pick Mining
LOGAN COUNTY—Continued.								
Guyandotte Coal Co.	Guyandotte	6	44,240	30	10	40		
E. R. Johnson Coal Mining Co.	Johnson Nos. 1-2	4	40,000	19	6	25		
Draper Coal & Coke Co.	Draper	4	38,400	26	10	36	8	2,500
H. T. Wilson Coal Co.	Wilson	5	73,871	38	8	46		
Fort Branch Coal Corporation	Fort Branch	9	32,726	20	3	23		
Price Coal Co.	Wanda	8	51,362	24	3	32		
Mantolia Coal Co.	Mantolia	3	61,426	30	6	36		
Rex Coal & Coke Co.	Rex	9	75,100	26	16	42	2	9,590
The Logan Coal Co.	Logan	12	69,106	28	16	44		
The Ethel Coal Co.	Ethel Nos. 1-2	8	90,646	40	16	56		
The Monitor Coal Co.	Monitor & Beechwood	10	223,889	100	10	110	20	2,000
The Yuma Coal & Coke Co.	Yuma	4	97,258	55	6	61		
The Gay Coal & Coke Co.	Gay	13	96,927	30	6	36		
Shamrock Coal Co.	Lilly	3	57,110	30	4	34		
Cora Coal & Coke Co.	Cora	3	90,536	50	6	56		
U. S. Coal & Oil Co.	Island Creek No. 1	10	479,631	175	18	193		
U. S. Coal & Oil Co.	Island Creek No. 2	8	394,513	157	14	171		
U. S. Coal & Oil Co.	Island Creek No. 3	4	237,286	124	12	136		
U. S. Coal & Oil Co.	Island Creek No. 4	9	218,820	148	12	160		
U. S. Coal & Oil Co.	Island Creek Nos. 5 & 6	6	215,540	80	10	90		
U. S. Coal & Oil Co.	Island Creek No. 7	3	64,838	44	6	50		
U. S. Coal & Oil Co.	Island Creek No. 8	4	45,065	28	4	32		
U. S. Coal & Oil Co.	Island Creek Nos. 9-10	3	105,109	54	6	60		
Manbar Coal Co.	Manbar	1	9,417	6	2	8		
Ferndale Coal Co.	Earling	3	28,692	18	4	22		
Araconia Coal Co.	Araconia Nos. 1-2	5	69,119	50	6	56		
Kohinoor Coal & Coke Co.	Big Vein	2	5,500	20	4	24		
Total		182	3,211,081	1,583	257	1,840	62	31,952
MINGO COUNTY.								
The Jas. R. Shanklin Coal Co.	Naugatuck	5	66,361	55	10	65		
Grey Eagle Coal Co.	Grey Eagle	5	4,596	35	10	45		
The Buffalo Collieries Co.	Buffalo	13	131,810	50	20	70		
Howard Colliery Co.	Howard	10	99,168	30	20	50		
Howard Jr. Coal Co.	Howard Jr.	12	90,675	24	22	46		
E. L. Sternberger Coal Co.	Sternberger	10	90,028	33	4	37		

NUMBER AND KINDS OF MINING MACHINES IN USE IN THE STATE FOR THE YEAR ENDING JUNE 30th,
1912.—(Continued.)

NAME OF COMPANY.	NAME OF MINE.	ELECTRIC MACHINES.										COMPRESSED AIR MACHINES.								Total No. of Machines.	Tons of Coal Produced by Machines. (Tons of 2240 lbs.)	
		Jeffrey.	Morgan-Gardner.	Goodman.	Sullivan.	Ingersoll-Rand.	Harrison.	Pneumatic.	General Electric	Newcomb-Miller.	Frank Prox.	Morgan-Gardner.	Whitcomb.	Goodman.	Harrison.	Ingersoll-Sargent.	Ingersoll-Rand.	Sullivan.	Jeffrey.			Rock.
BARBOUR COUNTY.	Meriden Nos. 1-2	4	1	1																6	54,348	
	Arcen.																				2	26,716
	Tygart's River Coal Co.	11																		11	122,637	
	The Consolidation Coal Co.																				13	156,386
	Century Nos. 1-2	9	4																	3	44,778	
	Lillian.																				2	6,737
	Grafton Fuel Co.																				2	18,824
Midland Coal & Coke Co.																						
Humphrey Coal Co.		2																				
Totals.		26	5	1	2											3				39	430,456	
MONONGALIA COUNTY.																						
	The Consolidation Coal & Co.	2																		2	6,236	
	Elkins No. 5	4																		4	123,902	
Totals.		6																		6	130,138	
PRESTON COUNTY.																						
	The Austen Coal & Coke Co.			3																3	10,418	
	The Austen Coal & Coke Co.			3																3	14,929	
	The Austen Coal & Coke Co.																			2	10,602	
	Hamilton Coal & Coke Co.																					
	Gorman Coal & Coke Co.																			4	2	
	Merchants Coal Co.		7																	7	172,010	
	Kingwood Coal Co.																					
	Elkins Coal & Coke Co.																					
Elkins Coal & Coke Co.	1																			3	48,760	
Elkins Coal & Coke Co.																				5	25,098	
Totals.		1	7	6	7	8														35	311,613	

TAYLOR COUNTY.									
Pittsview Coal Co.									59,339
McGraw Coal Co.									61,042
New York No. 1	2						3		5
Rosemont							3		3
Wendall Nos. 1-24-5									13
Md. Coal Co. of West Virginia	2						1		155,330
Winona	1								22,340
Cecil	1								2
Sterling Coal Co.									12,209
Totals	5	3	13	4			3		28
GRANT COUNTY.									
Davis Coal & Coke Co.									
Henry No. 22							8	19	
Totals							8	19	27
MINERAL COUNTY.									
Altrams Creek Coal & Coke Co.									
Oakmont No. 1	3								
Totals	3								3
RANDOLPH COUNTY.									
Davis Colliery Co.									
Coalton No. 1							2		
Totals							2		2
TUCKER COUNTY.									
Cumberland Coal Co.									
Number 5							4	4	
Thomas No. 23	1								
Totals	1						4	4	9
BRANTON COUNTY.									
Davis Colliery Co.									
Bower Nos 7-10							2		
Vanwith Nos. 1-2-3-4							1		
Totals							3		3
GILMER COUNTY.									
Gilmer Fuel Co.									
Gilmer							1	5	
Totals							1	5	6
MASON COUNTY.									
Hutchinson Coal Co.									
Jackson Coal & Mining Co.	3						4		
Hartford Coal & Mining Co.	3								
Totals	6						4		10

137,832

95,126

28,252

14,454

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The Persinger Coal Co.	Wilcox	1	1,541
Southern Collieries Co.	Lanmont No. 3	3	12,493
Holley Stephenson Coal & Coke Co.	Stephenson No. 5	3	72,283
Holley Stephenson Coal & Coke Co.	Stephenson No. 2	3	68,829
Wake Forest Mining Co.	Wake Forest	5	116,792
Carbon Coal Co.	Carbon Gas	2	14,021
Carbon Coal Co.	Carbon Splint	2	78,779
Carbon Coal Co.	Low Sulphur No. 4	1	14,189
Republic Coal Co.	Republic No. 1	2	30,512
Republic Coal Co.	Republic No. 3	1	22,052
Republic Coal Co.	Republic No. 5	2	4,894
West Virginia Colliery Co.	West Va. No. 1	5	38,785
West Virginia Colliery Co.	West Va. No. 2	2	22,198
West Virginia Colliery Co.	West Va. No. 3	4	117,658
West Virginia Colliery Co.	West Va. No. 4	4	44,383
Cabin Creek Consolidated Coal Co.	Davis	3	63,434
Cabin Creek Consolidated Coal Co.	Cherokee	5	38,111
Cabin Creek Consolidated Coal Co.	Calcutta	3	31,258
Cabin Creek Consolidated Coal Co.	Red Warrior	3	31,126
Cabin Creek Consolidated Coal Co.	Buckeye	1	53,566
Cabin Creek Consolidated Coal Co.	Empire	3	37,305
Cabin Creek Consolidated Coal Co.	Black Tulip	2	48,136
Cabin Creek Consolidated Coal Co.	Keystone	1	8,862
Cabin Creek Consolidated Coal Co.	Acme	2	38,494
Cabin Creek Consolidated Coal Co.	Shamrock	5	71,590
Cabin Creek Consolidated Coal Co.	Thistle	1	3,082
Cabin Creek Consolidated Coal Co.	Raccoon Gas	2	46,091
Cabin Creek Consolidated Coal Co.	No. 2 East & West	6	91,833
Cabin Creek Consolidated Coal Co.	Rose	5	64,069
Cabin Creek Consolidated Coal Co.	Kayford	1	94,323
Cabin Creek Consolidated Coal Co.	Holley	5	22,359
Cabin Creek Consolidated Coal Co.	Quarrier	5	30,622
Cabin Creek Consolidated Coal Co.	United Splint	4	49,213
Cabin Creek Consolidated Coal Co.	Belleclair	1	16,081
Cabin Creek Consolidated Coal Co.	Ruby	3	34,367
Paint Creek Collieries Co.	Reynolds	4	76,167
Paint Creek Collieries Co.	Scranton	5	13,777
Paint Creek Collieries Co.	Paint Creek	6	70,061
Paint Creek Collieries Co.	Waconah	2	15,194
Paint Creek Collieries Co.	Banner Nos. 1 & 2	4	35,676
Paint Creek Collieries Co.	Detroit	3	5,911
Paint Creek Collieries Co.	Morton No. 1	1	770
Paint Creek Collieries Co.	Grose Nos. 1 & 2	4	39,076
Coalburg-Kanawha Coal Co.	A & B	3	49,354
Belmont Coal Co.	Black Cat	1	17,096
Belmont Coal Co.	Belmont & Cedar Grove	5	40,602
Crown Hill Kanawha Coal Co.	Crown Hill No. 8	5	28,467
Standard Splint & Gas Coal Co.	Standard	2	51,942
Imperial Collieries Co.	Imperial No. 1	6	69,560

NUMBER OF COKE OVENS NOT IN USE—1912.

COUNTY.	No. of Coke Ovens Not in Use	Field in Which Located
Marion.....	828	Upper Monongalia
Harrison.....	262	Upper Monongalia
Upshur.....	36	Upper Monongalia
Barbour.....	101	Upper Monongalia
Monongalia.....	108	Upper Monongalia
Preston.....	515	Upper Monongalia
Randolph.....	92	Upper Monongalia
Tucker.....	319	Upper Potomac
Fayette.....	1,928	New River
Kanawha.....	90	New River
Nicholas.....	38	New River
Mercer.....	1,202	Pocahontas
McDowell.....	6,275	Pocahontas
Total.....	11,794	

NUMBER OF COKE OVENS NOT IN USE—1912.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in Use.
MARION COUNTY.		
The Consolidation Coal Co.	Consolidation No. 24	150
The Consolidation Coal Co.	Consolidation No. 26	94
The Consolidation Coal Co.	Consolidation No. 38	36
The Consolidation Coal Co.	Consolidation No. 43	131
The Consolidation Coal Co.	Consolidation No. 45	96
The Consolidation Coal Co.	Consolidation No. 56	89
The Consolidation Coal Co.	Consolidation No. 63	8
The Consolidation Coal Co.	Consolidation No. 67	50
The Consolidation Coal Co.	Consolidation No. 68	12
Jamison Coal & Coke Co.	Jamison No. 8	55
Federal Coal & Coke Co.	Federal No. 1	60
The Va. & Pittsburg C. & C. Co.	Kingmont	47
Totals		828
HARRISON COUNTY.		
The Consolidation Coal Co.	Consolidation No. 21	80
The Consolidation Coal Co.	Consolidation No. 33	22
The Consolidation Coal Co.	Consolidation No. 49	60
The Consolidation Coal Co.	Consolidation No. 55	50
Fairmont & Baltimore C. & Coke Co.	Fairmore	30
Totals		262
UPSHUR COUNTY.		
Buchanan River C. & C. Co.	Florence	36
BARBOUR COUNTY.		
Meriden Coal Mining Co.	Meriden Nos. 1-2	50
Gage Coal & Coke Co.	Sara	
Davis Colliery Co.	Junior No. 4	51
Totals		101
MONONGALIA COUNTY.		
The Consolidation Coal Co.	Consolidation No. 30	46
Elkins Coal & Coke Co.	Richard No. 1	50
Pittsburg Steam Coal Co.	Opekiska	12
Totals		108
PRESTON COUNTY.		
The Austen Coal & Coke Co.	Austen No. 1	60
Hamilton Coal & Coke Co.	Newberg Shaft	95
Gorman Coal & Coke Co.	Gorman No. 2	40
S. H. Jordan	Corinth	50
Elkins Coal & Coke Co.	Bretz No. 2	130
Preston County Coke Co.	Cascade Nos. 1-2-3	40
Hiorra Coke Co.	Vulcan	100
Totals		515
RANDOLPH COUNTY.		
Davis Colliery Co.	Coketon Nos. 36-37	67
Davis Colliery Co.	Harding No. 3	25
Totals		92
TUCKER COUNTY.		
The Cumberland Coal Co.	Douglas No. 1	103
Davis Coal & Coke Co.	Coketon Nos. 36-37	216
Totals		319
FAYETTE COUNTY.		
Sunday Creek Co.	Sunday Creek No. 111	4
Sunday Creek Co.	Sunday Creek No. 112	5
Sunday Creek Co.	Sunday Creek No. 114	5
Sunday Creek Co.	Sunday Creek No. 115	4

NUMBER OF COKE OVENS NOT IN USE—1912.

NAME OF COMPANY.	NAME OF MINE.	No. of Coke Ovens Not in Use.
FAYETTE COUNTY—Continued.		
St. Clair Colliery Co.	St. Clair	85
The Mt. Carbon Co., Ltd.	Vulcan	106
Loup Creek Colliery Co.	No. 2 Gas	505
Gauley Mountain Coal Co.	Nova Scotia—Turkey Creek	112
Gaymont Colliery Co.	Gaymont	24
Sunbeury Coal & Coke Co.	Sunnyside	18
Fire Creek Coal & Coke Co.	Fire Creek—Buffalo	26
Beury Bros. Coal & Coke Co.	Echo—Knondyke	50
Stone Cliff Coal & Coke Co.	Stone Cliff	60
Greenwood Coal Co.	Greenwood	45
New River & Poca. Con. C. & C. Co.	Minden No. 2	50
New River & Poca. Con. C. & C. Co.	Minden No. 3	50
New River & Poca. Con. C. & C. Co.	Minden No. 5	50
Lowmoor Iron Co. of Virginia	Kaymoor No. 1	36
Scotia Coal & Coke Co.	Red Ash	80
Scotia Coal & Coke Co.	Rush Run—Onemore	94
Glade Coal Works	Cliff Top No. 3-4	173
New River Collieries Co.	Sun Nos. 1-2-3	120
Harvey Coal & Coke Co.	Harvey Nos. 1-2	81
Macdonald Colliery Co.	Macdonald	45
Collins Colliery Co.	Collins Nos. 1-2	100
Totals		1,928
KAMAWHA COUNTY.		
Cannelton Coal & Coke Co.	Cannelton Nos. 1-2	90
NICHOLAS COUNTY.		
Saxman Coal & Coke Co.	Saxman No. 1-2	38
MERCER COUNTY.		
Coaldale Coal & Coke Co.	Coaldale	110
Mill Creek Coal & Coke Co.	E. W. W. Fork—Tug River	165
Buckeye Coal & Coke Co.	Buckeye	122
Booth-Bowen Coal & Coke Co.	Booth—Bowen	117
Pocahontas Con. Collieries Co.	Caswell Creek, Elkhorn, Hemlock	231
Pocahontas Con. Collieries Co.	Sagamore	280
Louisville Coal & Coke Co.	Louisville—Goodwill	165
Crystal Coal & Coke Co.	Crystal No. 1	4
The Thomas Coal Co.	Thomas No. 1	8
Totals		1,202
MCDOWELL COUNTY.		
Algoma Coal & Coke Co.	Piney & Northfork	174
Elk Ridge Coal & Coke Co.	Elk Ridge	130
Gilliam Coal & Coke Co.	Gilliam	157
Indian Ridge Coal & Coke Co.	Indian Ridge	150
Arlington Coal & Coke Co.	Arlington	94
Greenbrier Coal & Coke Co.	Greenbrier	135
McDowell Coke Co.	McDowell	140
Ashland Coal & Coke Co.	Ashland & Monitor	310
Poca. Con. Collieries Co.	Cherokee	128
Poca. Con. Collieries Co.	Lick Branch	33
Poca. Con. Collieries Co.	Delta	120
Poca. Con. Collieries Co.	Shamokin	264
Poca. Con. Collieries Co.	Norfolk	122
Poca. Con. Collieries Co.	Angle	192
Poca. Con. Collieries Co.	Rolfe	100
Elkhorn Coal & Coke Co.	Elkhorn	90
Turkey Gap Coal & Coke Co.	Turkey Gap	35
Crozer Coal & Coke Co.	Crozer Nos. 1-2	125
Houston Coal & Coke Co.	Houston No. 1-2	98
Upland Coal & Coke Co.	Upland No. 1	96
Powhatan Coal & Coke Co.	Powhatan	105
Lynchburg Coal & Coke Co.	Lynchburg	103
Keystone Coal & Coke Co.	Keystone Nos. 1-2	151
Pulaski Iron Co.	Pulaski Nos. 1-2-3	20
Enreka Coal & Coke Co.	Eureka	115

 NUMBER OF COKE OVENS NOT IN USE—1912.

NAME OF COMPANY	NAME OF MINE	No. of Coke Ovens Not in Use.
<i>McDOWELL COUNTY—(Continued.)</i>		
Shawnee Coal & Coke Co.....	Shawnee.....	130
Empire Coal & Coke Co.....	Empire.....	160
Bottom Creek Coal & Coke Co.....	Bottom Creek No. 1.....	168
Peerless Coal & Coke Co.....	Peerless.....	160
Tidewater Coal & Coke Co.....	Tidewater.....	300
The Middle States Coal & Coke Co.....	Helena.....	115
The Page Coal & Coke Co.....	Page Nos. 1-2-3.....	330
United States Coal & Coke Co.....	United No. 2.....	610
United States Coal & Coke Co.....	United No. 3.....	250
United States Coal & Coke Co.....	United No. 4.....	209
United States Coal & Coke Co.....	United No. 5.....	102
United States Coal & Coke Co.....	United No. 7.....	350
United States Coal & Coke Co.....	United No. 8.....	129
New River & Poca. Con. C. & C. Co.....	Berwind Nos. 1-2-3-4.....	75
Totals.....		6,275

PRODUCTION OF COKE BY COUNTIES FOR THE YEAR ENDING JUNE 30, 1912.

COUNTY.	No. of Coke Plants Reported	Total Tons of Coal used In Ovens Tons of 2,000 lbs.	Total Tons of Coke Produced, Tons of 2,000 lbs.	Percentage of Yield	Total No. of Coke Ovens Reported.	Total No. of Ovens Reported Not in Use.	Average No. of Coke Ovens Operated During the Year.		Average No. of days ovens were Operated.	Number of Men Employed
							In County.	Per Plant.		
Marion.....	12	129,740	81,147	62.70	998	828	170	42	179	59
Harrison.....	6	-----	-----	-----	262	262	-----	-----	-----	-----
Upshur.....	1	-----	-----	-----	36	36	-----	-----	-----	-----
Barbour.....	3	2,112	1,475	69.83	126	101	25	25	58	5
Monongalia.....	3	91,532	55,994	61.74	216	108	108	54	107	37
Preston.....	7	286,940	196,031	67.96	956	515	441	147	303	107
Taylor.....	1	12,040	6,452	53.58	30	-----	30	30	105	7
Randolph.....	2	170,804	119,513	69.37	335	92	243	121	250	69
Trickett.....	2	68,393	40,710	59.52	387	319	68	34	283	59
Payette.....	9	624,468	370,517	59.33	3,311	1,928	1,468	85	208	456
Kanawha.....	1	-----	-----	-----	90	90	-----	-----	-----	-----
Nicholas.....	1	4,663	3,113	66.75	50	38	12	12	275	3
Mercer.....	11	331,152	189,200	51.99	2,124	1,292	922	102	233	215
McDowell.....	41	1,588,311	928,545	58.45	9,830	6,275	3,555	107	246	1,280
Totals.....	120	3,310,250	1,962,697	60.19	18,751	11,794	6,957	58	140	2,297

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30, 1912.

NAME OF COMPANY.	MINE.	Tons of Coal Used in Ovens Tons of 2,000 lbs.	Tons of Coke Pro- duced Tons of 2,000 lbs.	Number of Coke Ovens Reported	Average No. Ovens Used Per Plant	Average No. Days Ovens Were Operated	Number of Ovens Not in Use
MARION COUNTY.							
The Consolidation Coal Company.	Consolidation No. 24.			150			150
The Consolidation Coal Company.	Consolidation No. 26.			94			94
The Consolidation Coal Company.	Consolidation No. 38.			36			36
The Consolidation Coal Company.	Consolidation No. 43.	11,975	7,186	170	39	121	131
The Consolidation Coal Company.	Consolidation No. 45.			96			96
The Consolidation Coal Company.	Consolidation No. 56.			89			89
The Consolidation Coal Company.	Consolidation No. 63.	75,269	18,731	99	91	313	8
The Consolidation Coal Company.	Consolidation No. 67.			50			50
The Consolidation Coal Company.	Consolidation No. 68.			12			12
Jamison Coal & Coke Co.	Jamison No. 8.	36,079	21,648	75	20	100	55
Federal Coal & Coke Co.	Federal No. 1.	6,417	3,582	60			60
The Virginia & Pittsburgh C. & C. Co.	Kinmont			67	20	125	47
Totals.....		120,740	81,147	998	42	179	828
HARRISON COUNTY.							
The Consolidation Coal Company.	Consolidation No. 21.			80			80
The Consolidation Coal Company.	Consolidation No. 33.			22			22
The Consolidation Coal Company.	Consolidation No. 49.			60			60
The Consolidation Coal Company.	Consolidation No. 55.			50			50
Farmont & Baltimore C. & C. Co.	Farmore.			30			30
Clarksburg Gas Coal Co.	McWhorter.			20			20
Totals.....				262			262
UPSHUR COUNTY.							
Buchannon River C. & C. Co.	Florence.			36			36
Totals.....				36			36
BARBOUR COUNTY.							
Meriden Coal Mining Co.	Meriden Nos. 1-2.			50			50
Gage Coal & Coke Co.	Sara.	2,212	1,475	25	25	58	
Davis Colliery Co.	Junior No. 4.			51			51
Totals.....		2,212	1,475	126	25	58	101

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY.	MINE.	Tons of Coal Used in Ovens Tons of 2,000 lbs.	Tons of Coke Pro- duced Tons of 2,000 lbs.	Number of Coke Ovens Reported	Average No. Ovens Used Per Plant	Average No. Days Ovens Were Operated	Number of Ovens Not in Use
FAYETTE COUNTY—Continued.							
Stone Cliff Coal & Coke Co.	Stone Cliff			60			60
Greenwood Coal Co.	Greenwood			45			45
New River & Poca, Con. C. & C. Co.	Minden No. 2			50			50
New River & Poca, Con. C. & C. Co.	Minden No. 3			50			50
New River & Poca, Con. C. & C. Co.	Minden No. 5			50			50
Lowmoor Iron Co. of Virginia	Kaymoor No. 1	82,928	47,435	146	110	300	36
Branch Coal & Coke Co.	Elvorton	8,136	5,351	51	51	100	
Scotia Coal & Coke Co.	Red Ash			80			80
Glade Coal Works	Rush Run—Once More			94			94
New River Collieries Co.	Cliff Top Nos. 3-4	5,040	3,000	298	125	350	173
Harvey Coal & Coke Co.	Sun 1-2-3	4,708	2,701	120	17	100	120
Macdonald Colliery Co.	Harvey Nos. 1-2	30,156	15,650	120	75	100	81
Turkey Knob Coal Co.	Macdonald	40,320	19,600	100	100	365	45
Collins Colliery Co.	Turkey Knob			100			100
	Collins Nos. 1-2						
Totals		62,468	370,547	3,311	85	208	1,928
KANAWHA COUNTY.							
Cannelton Coal & Coke Co.	Cannelton Nos. 1-2			90			90
Totals				90			90
NICHOLAS COUNTY.							
Saxman Coal & Coke Co.	Saxman Nos. 1-2	4,063	3,113	50	12	275	38
Totals		4,063	3,113	50	12	275	38
MERCER COUNTY.							
Coaldale Coal & Coke Co.	Coaldale	18,721	11,705	140	30	150	110
Mill Creek Coal & Coke Co.	E. W. W. Fork—Tur River	36,744	22,908	215	50	160	165
Buckeye Coal & Coke Co.	Buckeye	30,374	15,181	172	50	225	122
Booth-Bowen Coal & Coke Co.	Booth-Bowen	35,794	19,975	177	60	300	117
Pocahtontas Consolidated Collieries Co.	Carswell Creek, Elkhorst and Hemlock			231			231
Pocahtontas Consolidation Collieries Co.	Sagamore			280			280
Louisville Coal & Coke Co.	Louisville-Goodwill	26,444	15,738	223	60	2-3	165

Crystal No. 1		60,800	23,930	149	136	300	4
American Coal Co. of Allegheny County.		64,347	34,656	200	200	200	---
American Coal Co. of Allegheny County.		9,988	5,047	200	200	60	---
The Thomas Coal Co.		47,910	30,000	114	136	365	8
Totals		331,152	189,200	2,124	102	233	1,202
McDOWELL COUNTY.							
Alcona Coal & Coke Co.		28,543	15,682	225	51	300	174
Elk Ridge Coal & Coke Co.		25,700	17,599	200	70	244	130
Gilliam Coal & Coke Co.		25,361	15,820	217	60	200	157
Indian Ridge Coal & Coke Co.		517	375	200	50	20	150
Roanoke Coal & Coke Co.		18,298	11,925	130	130	313	---
Arlington Coal & Coke Co.		23,985	17,189	158	64	200	94
Greenbrier Coal & Coke Co.		35,428	21,039	200	65	310	135
McDowell Coal & Coke Co.		26,723	17,148	240	60	300	140
Ashland & Monitor		31,670	24,637	410	100	280	310
Cherokee		74,780	41,731	128	128	---	128
Lick Branch		---	---	198	125	220	33
Delta		35,000	21,195	120	---	---	120
Shamokin		100,889	56,300	339	125	180	204
Norfolk		---	---	322	240	187	122
Angle		---	---	192	---	---	192
Rolf		---	---	100	---	---	100
Elkhorn		27,299	18,484	170	80	365	90
Turkey Gap		114,721	64,008	240	205	365	35
Crozer Nos. 1-2		87,784	43,988	400	175	365	125
Houston Nos. 1-2		82,250	50,993	225	130	300	98
Upland No. 1		55,336	30,937	216	120	239	96
Powhatan		58,572	36,795	225	120	251	105
Lynchburg		47,582	26,553	213	110	365	103
Keystone Nos. 1-2		21,747	13,040	216	65	200	131
Pulaski Nos. 1-2-3		161,180	89,956	280	240	300	224
Eureka		36,660	20,425	115	89	224	115
Shawnee		25,216	14,058	188	58	200	130
Empire		45,181	25,210	250	90	365	160
Bottom Creek No. 1		25,605	16,130	220	52	300	168
Peerless		37,213	20,766	254	94	251	160
Tidewater		---	---	300	---	---	300
Holden		27,301	17,119	150	35	300	115
Page Nos. 1-2-3		119,889	65,923	500	170	251	330
No. 2		23,797	13,761	710	300	75	910
No. 3		23,573	13,645	300	50	75	250
No. 4		---	---	269	---	---	269
No. 5		---	---	102	---	---	102
No. 6		23,572	11,732	---	---	100	---
No. 7		---	---	350	308	---	350
No. 8		21,228	11,841	172	43	75	129

PRODUCTION OF COKE FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY.	MINE.	Tons of Coal Used in Ovens Tons of 2,000 lbs.	Tons of Coke Pro- duced Tons of 2,000 lbs.	Number of Coke Ovens Reported	Average No. Ovens Used Per Plant	Average No. Days Ovens Were Operated	Number of Ovens Not in Use
McDOWELL COUNTY—Continued. New River & Pocahontas Coal & Coke Co.	Nos. 1-2-3-4.	85,209	55,767	200	125	365	75
Totals.....		1,588,311	928,515	9,830	107	246	6,275
Grand Total.....		3,310,250	1,992,697	18,761	58	140	11,794

SUMMARY OF THE DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR YEAR ENDING JUNE 30, 1

COUNTY.	Number of Mines	EMPLOYEES.						Average No. of Days Mines Were Operated, or, rated	Average No. of Ovens in Operation Per Plant	No. of Horses And Mules Used
		INSIDE.			OUTSIDE.					
		Pick Miners	MaLine Miners	Machine Runners and Helpers	Laborers Total	Laborers	Coke Workers				Sum Total
Brooke	6	62	460	78	110	710	85	793	219	25
Marion	34	1,397	1,212	388	1,069	3,976	869	4,904	226	405
Marshall	7	51	132	58	136	671	114	785	230	32
Ohio	5	15	237	36	83	371	37	408	249	8
Harrison	65	879	1,497	451	1,117	3,910	852	4,762	193	522
Lewis	1	40			12	52	10	62	250	4
Cedar	3	57	22	4	10	93	28	121	128	8
Barbour	14	304	252	68	159	778	162	945	144	99
Monongalia	7	195	62	11	82	350	50	437	167	53
Preston	15	518	190	65	292	1,004	141	1,252	214	117
Taylor	10	245	237	32	137	651	118	776	231	71
Grant	2	31	10	16	16	73	23	96	233	30
Mineral	18	513	20	5	116	651	113	767	263	102
Randolph	12	448	20	4	131	603	79	1,751	231	73
Tucker	15	913	20	4	402	1,339	263	1,599	296	132
Braxton	4	152	20	6	36	214	27	211	204	36
Gilmer	3	14	40	12	11	77	10	93	144	13
Mason	3	10	115	20	42	217	28	245	188	24
Putnam	3	678			171	849	89	938	223	61
Clay	3	8	102	22	27	159	39	189	232	11
Fayette	103	4,448	2,350	513	2,821	10,132	1,710	12,298	245	85
Boone	98	25	211	34	62	332	92	424	133	22
Nicholas	5	37	35	19	25	116	22	141	243	12
Greenbrier	1	40		6	6	46	9	55	253	7
Raleigh	43	2,150	799	203	1,210	4,362	619	4,981	247	385
Mercer	22	1,465	340	55	671	2,531	152	3,198	238	389
McDowell	103	5,854	3,408	691	2,808	12,758	2,476	16,513	243	1,128
Logan	33	62	1,583	257	683	2,985	490	3,075	221	100
Mingo	29	228	862	253	828	2,181	480	2,661	224	185
Wayne	1		33	6	13	51	17	68	274	9
Kanawha	99	1,090	3,192	696	1,703	9,681	1,022	6,703	190	847
Totals	677	21,879	17,752	3,945	13,277	56,853	16,161	61,611	224	6,486
Totals for 1911	693	21,247	17,036	3,661	15,888	57,832	9,944	70,644	194	6,551

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES							Sums Total	Average Number Days Were Operated	Average Number Ovens in Opera- tion Per Plant	Number of Horses Mules Inside	
		INSIDE			OUTSIDE								
		Pick Miners	Machine Miners	Machine Runners and Helpers	Labor- ers	Total	Labor- ers	Coke Workers					Total
BROOKE COUNTY.	No. 3	24	6	8	38	8		8	250	46	3		
	No. 4	60	10	12	82	31		12	94	72	6		
	Locust Grove No. 1	15	120	8	32	185	30		300	216	12		
	Beech Bottom Coal Co.	25	60	8	12	105	9		256	114	1		
	LaBelle Coal Co.	3	80	12	10	105	10		150	115	6		
	La Belle Iron Works	19	116	24	36	195	13		288	268			
	Totals	62	460	78	110	710	83		219	793	28		
	MARION COUNTY	Consolidation No. 22	35	49	12	44	140	40		276	180	15	
		The Consolidation Coal Co.	28	22	10	63	123	44		181	167	13	
		The Consolidation Coal Co.	46	60	24	70	200	70		195	270	19	
The Consolidation Coal Co.		36	19	3	36	94	24		321	118			
Consolidation No. 34		18	10	2	20	50	8		58	302	4		
The Consolidation Coal Co.		50	4	8	45	107	25		132	139	16		
The Consolidation Coal Co.		80	40	14	50	184	40		224	180	20		
The Consolidation Coal Co.		67	56	11	28	162	31	13	206	276	121		
Consolidation No. 43		27	8	4	16	55	15		70	187	39		
The Consolidation Coal Co.		45	50	12	20	127	25		152	185	20		
The Consolidation Coal Co.		49	18	6	62	135	25		160	270	14		
The Consolidation Coal Co.		23	85	14	78	200	45		245	235	21		
Consolidation No. 59		10			5	15	5		20	45	3		
The Consolidation Coal Co.		35	73	8	45	161	22	27	49	299	313		
The Consolidation Coal Co.		30	20	4	35	89	20		20	210	9		
The Consolidation Coal Co.		80			26	106	25		25	233	2		
Consolidation No. 84		20			10	30	14		44	230	2		
The Consolidation Coal Co.		1				1	1		2	105	1		
Jameson Coal & Coke Co.		Jameson No. 7		90	52	58	200	48		304	304	24	
Jameson Coal & Coke Co.		Jameson No. 8	142	125	52	13	332	32	15	379	305	29	
Jameson Coal & Coke Co.	Jameson No. 9		70	30	65	165	49		214	304	20		
New Central Coal Co.	Stafford	17	60	20	36	133	36		169	262	11		
Federal Coal & Coke Co.	Federal No. 1	159	103	38	19	319	58		312	377	17		
The Va. & Pittsburgh C. & C. Co	Kingmont	175			52	227	43	4	274	370	22		

The Va. & Pittsburg C. & C. Co.	40	40	5	8	48	8	8	95	928	4,904	226	179	42	405
Parker Run Coal & Coke Co.	24	24	5	12	57	12	37	869	3,976	1,069	388	26	50	256
Harry B. Nos. 1-2-3-4-5	18	18	3	9	33	9	33	25	256	50	180	26	50	256
Kilham Coal & Coke Co.	18	18	3	9	33	9	33	25	256	50	180	26	50	256
Pittsburg Steam Coal Co.	16	16	2	4	22	4	22	15	41	7	30	4	1	4
Catawba Coal Co.	16	16	2	4	22	4	22	15	41	7	30	4	1	4
Dakota Coal & Coke Co.	10	10	3	13	36	13	36	14	97	14	75	8	14	10
Phillips Coal Co.	10	10	3	13	36	13	36	14	97	14	75	8	14	10
Four States Coal & Coke Co.	8	8	157	48	319	78	2	10	68	13	45	8	2	10
Annabelle Nos. 1 & 2	8	8	157	48	319	78	2	10	68	13	45	8	2	10
James	8	8	157	48	319	78	2	10	68	13	45	8	2	10
Robinson Coal Co.	8	8	157	48	319	78	2	10	68	13	45	8	2	10
Totals	1,307	1,212	388	1,069	3,976	869	95	928	4,904	226	179	42	405	
MARSHALL COUNTY														
The Hitchman Coal & Coke Co.	10	10	26	50	256	45	45	45	45	301	293			12
Benwood	10	10	26	50	256	45	45	45	45	301	293			12
Mound Coal Co.	30	30	6	8	44	10	10	10	10	107	184			8
Parrs Run Coal Works	30	30	6	8	44	10	10	10	10	107	184			8
Ben Franklin Coal Co. of W. Va.	9	9	8	14	97	12	12	12	12	109	244			3
Kuntz Bros. & Miller	2	2	45	13	68	10	10	10	10	78	270			7
Glendale Coal Co.	2	2	45	13	68	10	10	10	10	78	270			7
Totals	51	432	58	122	671	114	114	114	114	785	230			32
OHIO COUNTY														
Richland Coal Co.	2	2	170	60	258	25	25	25	25	283	279			4
The Elm Grove Coal Co.	9	9	35	14	62	6	6	6	6	68	280			4
Whittaker-Glessner Co.	4	4	30	7	41	5	5	5	5	46	300			4
J. S. Creighton	4	4	30	7	41	5	5	5	5	46	300			4
Peter Storch & Son	4	4	30	7	41	5	5	5	5	46	300			4
Totals	15	237	36	83	371	37	37	37	37	408	249			8
HARRISON COUNTY														
The Consolidation Coal Co.	30	30	52	60	162	58	58	58	58	220	151			16
The Consolidation Coal Co.	25	25	62	38	135	42	42	42	42	177	137			11
The Consolidation Coal Co.	25	25	62	38	135	42	42	42	42	177	137			11
The Consolidation Coal Co.	32	32	13	13	62	25	25	25	25	87	175			6
The Consolidation Coal Co.	20	20	51	25	43	16	16	16	16	66	107			6
The Consolidation Coal Co.	15	15	10	3	46	15	15	15	15	61	127			5
The Consolidation Coal Co.	10	10	28	12	72	24	24	24	24	96	195			15
The Consolidation Coal Co.	19	19	15	18	56	13	13	13	13	69	250			4
The Consolidation Coal Co.	8	8	40	12	100	20	20	20	20	120	187			13
The Consolidation Coal Co.	1	1	10	2	31	4	4	4	4	82	184			5
The Consolidation Coal Co.	1	1	10	2	31	4	4	4	4	82	184			5
The Consolidation Coal Co.	6	6	13	3	9	3	3	3	3	23	130			3
The Consolidation Coal Co.	27	27	40	18	148	55	55	55	55	203	188			6
The Consolidation Coal Co.	27	27	40	18	148	55	55	55	55	203	188			6

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES					Sums Total	Average Number Days Were Operated	Average Number Ovens in Opera- tion Per Plant	Number of Horses and Mules Inside		
		INSIDE		OUTSIDE								
		Pick Miners	Machine Miners and Helpers	Labor- ers	Total	Labor- ers					Coke Workers	Total
HARRISON COUNTY—Con.												
	The Consolidation Coal Co.	9	27	8	30	74	26	100	195	8		
	The Consolidation Coal Co.	9	30	10	30	79	18	97	154	11		
	The Consolidation Coal Co.	4	41	13	25	82	20	102	190	13		
	The Consolidation Coal Co.	4	16	8	12	40	15	55	130	12		
	The Consolidation Coal Co.	6	32	15	23	76	30	106	178	9		
	The Consolidation Coal Co.	10	20	4	14	48	12	60	200	6		
	The Consolidation Coal Co.	8	20	4	13	45	6	51	270	6		
	The Consolidation Coal Co.	7	16	4	10	37	5	42	175	5		
	The Consolidation Coal Co.	3	22	12	36	73	15	88	221	12		
	The Consolidation Coal Co.	1	19	10	25	55	18	73	138	11		
	The Consolidation Coal Co.	3	39	8	23	64	18	82	208	9		
	Virginia Maryland Coal Corp.	5	80	38	35	159	26	185	263	16		
	Corona Coal & Coke Co.	10	40	6	22	78	9	87	240	8		
	Central Fairmont Coal Co.	32	12	5	3	35	5	40	192	6		
	Venont Coal Co.	21	40	8	18	51	7	58	238	7		
	Haywood Coal Mining Co.	6	75	18	10	64	6	70	191	5		
	Hutchinson Coal Co.	10	25	10	23	116	12	128	217	13		
	Hutchinson Coal Co.				2	12		14	180	1		
	Hutchinson Coal Co.				5	36		41	236	4		
	Hutchinson Coal Co.				24	114		137	231	14		
	Hutchinson Coal Co.				25	118		130	223	14		
	Harrison County Coal Co.	12	30	4	6	52	4	56	300	6		
	Lambert Run Coal Co.	10	25	2	5	42	10	52	260	8		
	Righter Coal & Coke Co.	24	10	2	7	31	7	38	252	4		
	Hero Coal & Coke Co.	20	10	2	5	25	3	28	212	3		
	Blue Ridge Coal Co.	8	10	2	1	9	2	11	161	3		
	Rosebud Fuel Co.	4	30	10	8	24	4	28	140	4		
	Rosebud Fuel Co.	4	30	10	15	50	9	68	180	6		
	National Coal Co.	25	10	2	6	31	2	33	200	7		
	Fayette Coal Co.	7	20	8	9	44	6	50	180	6		
	Short Line Coal Co.	25	10	2	13	38	6	44	231	5		
	Farmont & Baltimore C. & C. Co.	50	10	2	22	72	10	82	214	10		
	Madera-Hill-Clark Coal Co.	43	10	2	21	64	9	73	246	12		
	Madera-Hill-Clark Coal Co.	30	10	2	14	44	11	55	241	7		

Madera-Hill-Clark Coal Co.	4	551	24	34	112	30	30	142	226			12
Madera-Hill-Clark Coal Co.	15	12	2	15	26	4	4	26	121			2
Orr Coal Mining Co.	15	35	6	35	91	15	15	37	223			4
O'Garra Coal Mining Co.	26	10	6	3	19	3	3	106	235			13
Duquesne Coal Co.	40	48	8	34	116	21	21	137	110			5
Harry B. Coal & Coke Co.	40	50	26	28	144	20	20	164	230			15
Marshall Coal Co.	10	10	2	3	13	3	3	16	254			15
Bernard Coal Co.	2	31	8	13	54	8	8	62	200			2
Clarksburg Gas Coal Co.	8	2	2	2	10	2	2	12	229			6
Marion Gas Coal Co.	12	15	2	2	14	2	2	16	200			6
Daniel Coal Co.	15	15	4	4	19	3	3	17	161			3
Hygrade Coal Co.	12	12	2	2	14	2	2	12	75			3
Swager Coal Co.	19	25	2	2	14	2	2	22	83			2
The Monongah Fuel Co.	25	25	4	4	29	4	4	14	132			2
Byron Coal Company.	25	25	2	2	30	5	5	33	212			3
								35	174			7
Totals.	879	1,467	451	1,113	3,919	852	852	4,762	103			522
LEWIS COUNTY												
Kroger Gas Coal Co.	40			12	52	10	10	62	250			8
Total.	40			12	52	10	10	62	250			8
UPSHUR COUNTY												
Red Rock Fuel Co.	20	22	4	4	50	7	7	57	229			2
Newcomer.	17	17	3	3	20	1	1	21	60			2
Buchanan River C. & C. Co.	20			3	23	20	20	43	75			2
Totals.	57	22	4	10	93	28	28	121	128			4
BARBOUR COUNTY												
Luella Coal & Coke Co.	7			2	9	1	1	10	25			1
Meriden Coal Mining Co.		40	5	10	55	11	11	66	167			11
Tygart's River Coal Co.	3	14	4	6	27	8	8	35	200			5
The Consolidation Coal Co.	10	68	22	53	153	46	46	194	143			24
Laurel Creek Coal Co.	12			2	14	2	2	16	110			2
The Century Coal Co. of W. Va.	105	96	26	22	249	20	20	269	269			26
Davis Coal & Coke Co.	40			7	47	41	41	88	75			4
Grafton Fuel Co.					27	6	6	33	275			5
Gage Coal & Coke Co.	24	15	6	6	27	4	4	39	66	58	25	
Davis Colliery Co.	30			5	35	5	5	40	35			5
Midland Coal & Coke Co.		3	3	1	7	5	5	12	100			2
Luella Coal & Coke Co.	29			5	34	2	2	36	217			5
Humphreys Coal Co.		16	2	8	26	4	4	30	150			4
Davis Coal & Coke Co.	48			17	65	7	7	72	175			5
Totals.	308	252	68	150	778	162	162	945	144	58	25	99

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES							Sums Total	Average Number Days Mines Were Operated	Average Number Days Ovens Were Operated	Number of Horses and Mules Inside
		INSIDE		OUTSIDE								
		Pick Miners	Machine Runners and Helpers	Laborers	Total	Laborers	Coke Workers	Total				
MONONGALIA COUNTY	Opokiska.....	15		6	21	3	4	7	28	8	3	
	Pittsburg Steam Coal Co.	37	7	10	57	10		10	67	199	5	
	The Consolidation Coal Co.	85		21	106	22	33	55	161	264	100	
	Richard No. 1.....											
	Elkins Coal & Coke Co.											
	Elkins No. 3 (Coaling Station).....	13		2	15	1		1	14	300		
	Elkins No. 5.....	19	55	37	115	7		7	122	296		
	The Great Scott Coal & Coke Co.	5		1	6	2		2	8	280	2	
	Grant.....	25		5	30	5		35	300		5	
	Totals.....	195	62	11	350	50	37	87	437	275	15	
PRESTON COUNTY	Austen No. 1.....	62	20	6	100	8	26	34	134	300	150	
	The Austen Coal & Coke Co.	15	5	6	33	3		3	36	240	6	
	The Austen Coal & Coke Co.	30	10	4	52	6		6	58	240	10	
	Newburg Shaft.....	20		10	50	8		8	58	210	6	
	Gorman Coal & Coke Co.	30	90	16	133	34		34	227	218	18	
	Tunnelton.....	25		7	32	2		2	34	285	6	
	Merchants Coal Co.											
	S. H. Jordan.....		35	6	55	8		8	63	278	14	
	Kingwood Coal Co.	15		5	20	2		2	22	40	4	
	Hite Coal & Coke Co.	85		19	104	15	33	48	152	306	137	
TAYLOR COUNTY	Elkins Coal & Coke Co.	21	10	6	51	7		7	68	125		
	Elkins Coal & Coke Co.	34	10	10	64	12		12	76	216		
	Elkins Coal & Coke Co.	83		16	99	19	48	67	166	299	154	
	Preston County Coke Co.	30		32	62	5		5	37	250	3	
	Borgman Coal Co.	30		2	32	7		7	42	88	4	
	Horra Coke Co.	30		34	64	7		7	42	88	4	
	Vulcan.....	38		7	45	5		5	50			
	Irona Coal Co.											
	Totals.....	518	190	64	1,004	141	107	248	1,252	214	147	91
	TAYLOR COUNTY	Grafton Coal & Coke Co.	35		10	45	10		10	55	246	8
Pittsview Coal Co.		25	50	4	43	12		12	105	211	8	
T. B. Davis.....		28		10	38	9		9	47	256	5	

McGraw Coal Co.	New York No. 1	2	25	4	14	45	19	19	64	265		6
Rosemont Coal Co.	Rosemont	90	40	4	40	174	25	25	199	280		18
Maryland Coal Co. of W. Va.	Wendel Nos. 1-2-3-5	15	100	14	28	157	27	27	184	196		16
Winona Coal & Coke Co.	Winona		12	2	5	19	4	7	30	293	165	30
Sterling Coal Co. Ltd.	Cecil		10	4	8	22	4		26	197		1
Harrison Coal Co.	Harrison	30			2	32	3		35	200		4
Sunnyside Coal Co.	Sunnyside	20			6	26	5		31	170		4
Totals		245	227	32	437	651	118	7	776	231	165	71
GRANT COUNTY												
Davis Coal & Coke Co.	Horry No. 22	6	10	16	10	42	20		62	266		21
Buffalo Creek Cumberland C. Co.	Buffalo Creek No. 1	25			6	31	3		34	201		4
Totals		31	10	16		73	23		96	233		25
MINERAL COUNTY												
Davis Coal & Coke Co.	Elk Garden No. 5	24			2	26	2		28	340		16
Davis Coal & Coke Co.	Walash No. 9	12				32	6		38	360		
Davis Coal & Coke Co.	Tyson No. 10	22			10	33	8		11	240		
Davis Coal & Coke Co.	Kittanning No. 14	55			12	67	8		75	285		15
Davis Coal & Coke Co.	Ort No. 20	27			10	37	8		15	265		10
Davis Coal & Coke Co.	Montgomery Run No. 19	63			17	80	25		105	270		11
Davis Coal & Coke Co.	Hampshire No. 50	26			3	34	3		57	256		6
Davis Coal & Coke Co.	Hampshire No. 51	45			14	39	6		57	240		6
Abrams Creek Coal & Coke Co.	Cakmont	12	20	5	12	49	8		14	251		10
Mastellar Coal Co.	Hampshire No. 1	12				12	2		22	257		2
Mastellar Coal Co.	Hampshire No. 2	41			6	47	7		54	222		1
Mastellar Coal Co.	Hampshire Six Foot	2				2			2	222		2
Hamill Coal & Coke Co.	New Creek	21			4	25	2		27	253		7
Western Maryland Coal Co.	Smith	25			5	30	6		36	148		5
Wesdon Coal & Coke Co.	Walash Nos. 1-2-3-4-5	25			6	31	5		36	240		5
Big Vein Coal Mining Co.	Gleason	35			8	43	10		63	240		4
Denman Coal Co.	Bokertown	35			2	37	5		42	300		3
Totals	Black Diamond	10				10	2		12	298		102
RANDOLPH COUNTY												
Davis Coal & Coke Co.	Weaver No. 1	75			31	106	14		120	188		12
Davis Coal & Coke Co.	Weaver No. 2	93			35	128	11		139	298		14
Davis Colliery Co.	Coalton No. Colliery	80	20	4	28	132	17	51	200	198	228	183
Davis Colliery Co.	Sivad No. 2	35			5	40	5		45	166		3
Davis Colliery Co.	Harding No. 3	26			12	38	14	18	32	70	272	60
Davis Colliery Co.	Sivad No. 5	9			1	10	1		11	313		1
Brady Coal Co.	Klondike	40			10	50	3		53	225		6
W. Va. Pulp & Paper Co.	Hopkins No. 1	15			2	17	2		19	310		2
J. B. Jenkins Coal & Coke Co.	Jenkins No. 1	33			5	40	3		43	303		3
W. H. Green		10				10	4		10	75		2
Rich Mountain Coal Co.	Hartridge	10				10	2		12	160		2

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYES							Sums Total	Average Number Days Mines Were Operated	Average Number Days Ovens Were Operated	Average Number of Horse- and Mules Per Plant Inside
		INSIDE			OUTSIDE							
		Pick Miners	Machine Miners	Machine Runners and Helpers	Labor- ers	Total	Labor- ers	Coke Workers					Total
RANDOLPH COUNTY—Con. Rich Mountain Coal Co.	Beech Run	20			2	22	3		3	25	300	2
	Totals	448	20	4	131	603	79	69	148	751	237	73
	TUCKER COUNTY											
	Cumberland Coal Co.	120			37	157	51	8	59	216	280	7
	Cumberland Coal Co.	54			22	76	14		14	90	273	5
	Cumberland Coal Co.	24	10	2	20	56	4		4	60	102	20
	Thomas No. 23	100	10	2	25	137	15		15	152	300	10
	Davis Coal & Coke Co.	70			20	90	12		12	102	303	
	Davis Coal & Coke Co.	10			2	12	2			14	268	
	Thomas No. 25	52			24	76	11		11	87	289	17
	Thomas No. 34 Shaft	31			80	111	17		17	128	235	9
	Davis Coal & Coke Co.	54			10	64	3		3	67	213	7
	Davis Coal & Coke Co.	33			7	40	5		5	45	208	8
	Cokeston No. 24	120			49	169	16	32	48	217	303	26
	Davis Coal & Coke Co.	41			25	66	15	19	34	100	306	10
	Cokeston No. 37	63			51	114	14		11	128	306	6
	Pierce No. 40	24			10	34	4		4	38	303	6
Davis Coal & Coke Co.	117			20	137	20		20	157	301	14	
Davis Coal & Coke Co.												
Davis Coal & Coke Co.												
Totals		913	20	4	402	1,339	203	59	260	1,599	266	152
BRAXTON COUNTY												
	Davis Colliery Co.	86	11	4	20	121	16		16	137	230	24
	Davis Colliery Co.	60			14	74	6		6	80	225	9
	Copen Creek Coal Co.		9	2	1	12	4		4	16	250	2
	Vanwith 1-2-3-1	6			1	7	1		1	8	112	1
Braxton Coal & Coke Co.												
Totals		152	20	6	36	214	27		27	241	204	36
GILMER COUNTY												
	Gilmer Fuel Co.		40	12	10	62	10		10	72	250	9
	McCaa Coal Co.	10				10	5		5	15	120	2

Katherine Coal Co.		Katherine.		4		1	5	1	1	6	62		2
Totals.				14	40	12	77	16		93	144		13
MASON COUNTY													
Hutchinson Coal Co.		Linden.											12
Jackson Coal & Mining Co.		Jackson Furnace.		10	80	8	108	12		120	216		4
Hartford Coal & Mining Co.		Hartford.			35	6	65	10		75	187		8
					30	6	44	6		50	153		
Totals.				10	145	20	217	28		245	188		21
PUTNAM COUNTY													
Plymouth Coal & Mining Co.		Plymouth & Manila.											27
The Otto Marmet Coal & Co.		Big Otto Nos. 1-2-3.		183			229	20		258	241		
Black Betsy Coal Mining Co.		Black Betsy.		225			310	50		360	248		30
				270			310	10		320	187		
Totals.				678			849	80		938	225		91
CLAY COUNTY													
Elk Manor Coal Co.		Dorlee.			35	8	60			68	261		6
Elk River Coal & Lumber Co.		Rich Run.		64	64	11	88	18		106	255		3
Queen Shoals Coal Co.		Burnswell.		8			11	4		15	209		2
Totals.				8	102	22	159	30		189	232		11
FAYETTE COUNTY													
Sunday Creek Co.		Sunday Creek No. 111.			82	12	139	26		203	222	94	11
Sunday Creek Co.		Sunday Creek No. 112.	13	130	87	12	215	40	38	327	249	221	5
Sunday Creek Co.		Sunday Creek No. 114.	20	71	10	55	156	43	55	254	209	51	12
Sunday Creek Co.		Sunday Creek No. 115.	10	156	20	71	257	28	77	362	255	214	11
Columbus Iron & Steel Co.		Columbus No. 1.	23	69	14	53	159	22	16	197	256	270	29
W. R. Johnson Coal Co.		Kanawha Gas.	20				20	9		21	170		3
W. R. Johnson Coal Co.		Oakland Nos. 1-2.	30	35	6	18	89	10		90	230		16
Boomer Coal & Coke Co.		Boomer No. 1.	80	78	12	60	230	15		245	36		15
Boomer Coal & Coke Co.		Boomer No. 2 North & South.											
Boomer Coal & Coke Co.		Boomer No. 3.	75	253	28	136	492	58		550	222		48
Boomer Coal & Coke Co.		Boomer No. 4.	2	87	12	46	147	18		165	226		16
Paint Creek Colliery Co.		Hickory Camp.		94	12	30	136	27		163	225		10
W. R. Johnson Coal Co.		Crecent Nos. 5-6.	16	6	2	21	26	4		30	100		6
Mecca Colliery Co.		Mecca Gas.	15	16	4	15	50	8		58	142		10
Mecca Colliery Co.		Mecca Solint.	9	10	1	13	36	13		49	132		12
Mecca Colliery Co.		Diamond.	23	24	1	16	67	14		81	132		12
The Great Kanawha Colliery Co.		Dareka No. 14.	34			15	49	13		62	231		6
St. Clair Colliery Co.		St. Clair.	4	38	6	18	66	9		75	209		8
M. B. Coal & Coke Co.		Columbus Block No. 5.		20	2	6	28	4		32	268		11
M. B. Coal & Coke Co.		Kimberly No. 3.		30	6	14	50	6		56	289		10
M. B. Coal & Coke Co.		Elk Ridge No. 1.	8	35	6	14	63	6		69	278		6
M. C. Coal & Coke Co.		Elk Ridge No. 2.	8	35	6	15	61	10		74	267		7
The Mt. Carbon Co. Ltd.		Vulcan.	60	10	4	28	102	16	21	139	221	221	18

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES					Sums Total	Average Number Days Mines Were Operated	Average Number Ovens in Operation Per Plant	Number of Horses and Mules Inside	
		INSIDE		OUTSIDE							
		Pick Miners	Machine Miners	Machine Runners and Helpers	Laborers	Total					Laborers	Colle Workers	Total
FAYETTE COUNTY—Con.											
The Great Kanawha Colliery Co.	Great Kanawha	26				26	7	33	260	5	
Loup Creek Colliery Co.	Loup Creek No. 2 Gas	157	20	13	69	259	58	317	279	14	
Herbert Collieries Co.	Herbert	65			15	80	14	94	218	8	
F. C. Defiance Coal & Coke Co.	F. C. Defiance	15	50	8	32	75	7	82	275	9	
Lynchburg Colliery Co.	No. 2 Gas No. 5 Splint	85			35	120	20	140	213	20	
Ganovia Coal Co.	No. 5 Splint	70			16	86	14	100	200	9	
Deitz Colliery Co.	No. 2 Gas No. 5 Splint	50			25	75	20	95	198	15	
Christian Colliery Co.	No. 1 Eagle No. 1 Powellton		30	6	25	61	25	86	130		
Millburn Coal & Coke Co.	Millburn No. 1	60	25	4	25	114	35	149	260	10	
Sabary Collieries Co.	No. 1 A & B	105			50	155	58	213	244	12	
Mill Creek Colliery Co.	Mill Creek		30	20	10	60	15	75	300	18	
The Gauley Mountain Coal Co.	Nova Scotia & Turkey Creek	55	50	20	75	200	60	270	300	30	
Signal Knob Coal Co.	Signal Knob	35			15	50	5	55	300	15	
Michigan Coal Co.	Michigan	28			12	40	10	50	240	10	
Manufacturers & Consumers C. Co.	Newlyn	60			6	66	6	66	208	12	
G. M. Blume Estate.	Fayette	20	16	4	10	50	9	59	180	5	
Brown Coal Co.	Brown	55	20	10	20	105	8	113	125	12	
Nuttall	Nuttall	21	18	8	20	73	12	100	240	12	
Holliday Coal Co.	Keeney's Creek	36			36	73	21	104	280	6	
Keeney's Creek Colliery Co.	Smokeless	38	31	4	20	93	11	104	223	12	
Keeney's Creek Colliery Co.	Boone	44	19	4	17	82	8	90	183	10	
Ballingier Coal Co.	Ballingier No. 1	65			17	82	8	90	183	10	
Ballingier Coal Co.	Ballingier No. 2	5			1	6	1	7	227	2	
Rothwell Coal Co.	Dupee	9			9	43	8	51	241	5	
Blume Coal & Coke Co.	Blume	40	15	10	35	100	8	108	286	12	
Lookout Coal & Coke Co.	Lookout	10	20	6	11	47	7	54	280	6	
Fire Creek Coal & Coke Co.	Fire Creek & Buffalo	40			10	50	10	82	238	8	
Sewell Colliery Co.	Sugar Camp or Caperton	60	6	4	15	83	8	93	263	8	
Berry Bros. Coal & Coke Co.	Echo-Klondyke	35			12	47	6	53	240	4	
Big Bend Coal Co.	Big Bend	20			2	22	3	25	275	4	
Stone Cliff Coal & Coke Co.	Stone Cliff	35			12	47	7	54	300	6	
Beechwood Coal & Coke Co.	Beechwood No. 1	52			16	68	8	76	192	12	

Bechwood Coal & Coke Co.	Bechwood No. 2	32	10	42	6	48	192	7
Alaska Coal & Coke Co.	Alaska	18	5	23	4	27	230	4
Epitriam Creek Coal & Coke Co.	Buffalo & Slater	75	29	128	27	155	279	5
Export Coal Co.	Export	40	3	43	6	49	262	3
Laurel Creek Coal Co.	Laurel	40	10	64	4	68	220	8
Glendale Colliery Co.	Glendale	25	6	31	7	38	151	4
Quinnmont Coal Co.	Big Q	37	25	62	6	68	249	6
Greenwood Coal Co.	Greenwood	67	61	142	16	158	240	12
Hemlock Hollow C. & C. Co.	Hemlock	45	8	77	10	87	258	—
New River & Poca, Con. Coal Co.	Layland Nos. 1-2-3-4	247	55	302	68	370	269	10
New River & Poca, Con. Coal Co.	Minden No. 2	85	53	169	27	196	267	—
New River & Poca, Con. Coal Co.	Minden No. 3	63	44	109	27	196	270	—
New River & Poca, Con. Coal Co.	Minden No. 4	41	70	102	14	204	281	2
New River & Poca, Con. Coal Co.	Minden No. 5	23	77	188	16	204	271	—
The Low Moor Iron Co. of Va.	Kaymoor No. 1	63	40	165	39	230	240	23
Branch Coal & Coke Co.	Elvertown	25	20	45	11	68	120	4
Southside Company	Southside	70	12	93	7	100	217	8
The Thurmond Coal Co.	Concho	110	30	140	12	152	237	10
Scotia Coal & Coke Co.	Thurmond No. 2	5	—	5	1	6	271	1
Scotia Coal & Coke Co.	Brooklyn	45	20	85	13	98	251	4
Scotia Coal & Coke Co.	Rush Ash	26	11	37	8	45	242	8
Glade Coal Works	Rush Run & Onemore	45	17	62	15	77	240	4
New River Collieries Co.	Cliff Top No. 3-4	18	52	92	6	125	250	6
Dungen Coal Co.	Sun Nos. 1-2-3	177	95	247	35	282	209	41
Newlyn Coal Co.	Dungen	18	5	23	6	29	216	8
The Star Coal Co.	Newlyn	20	4	24	1	25	296	4
Meadow Fork Coal Co.	Star	67	33	144	15	139	297	16
Laura Mining Co.	Meadow Fork	27	8	35	7	42	249	6
Nichol Colliery Co.	Laura	33	8	41	6	47	195	10
McKell Coal & Coke Co.	Nichol	2	24	65	7	72	247	—
Harvey Nos. 1-2	Derryhale	35	32	83	9	92	233	16
Purdue Coal Co.	Kilbith	150	20	261	24	285	208	46
White Oak Coal Co.	Harvey Nos. 1-2	42	45	108	27	145	231	17
White Oak Coal Co.	Prudence, Jones, Layman	140	73	222	75	297	230	39
White Oak Coal Co.	Wingrove	65	50	145	22	167	267	30
White Oak Coal Co.	Scarlo	35	34	100	31	131	220	29
White Oak Coal Co.	Whipple	20	20	65	18	83	272	18
White Oak Coal Co.	Carlisle	45	53	98	24	122	236	14
Collins Colliery Co.	Oakwood	31	47	92	14	100	224	14
Stuart Colliery Co.	Collins Nos. 1-2	71	69	140	21	161	224	30
Dunlop Coal & Coke Co.	Summit Mine	13	40	126	25	151	262	10
Macdonald Colliery Co.	Stuart (Lochagally)	110	50	160	25	167	264	—
Sugan Creek Coal & Coke Co.	Klondyke	72	41	102	22	185	223	35
Turkey Knob Coal Co.	Macdonald	60	33	93	9	128	210	30
The Mt. Hope Coal & Coke Co.	Sugan Creek Nos. 1-2-3	87	30	115	20	113	233	22
	Turkey Knob	24	28	115	15	156	243	10
	Baby	—	10	31	4	38	256	4
Totals		4,448	2,821	10,132	1,710	12,298	245	1,292

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES							Sums Total	Average Number Days Mines Were Operated	Average Number Ovens in Opera- tion Per Plant	Number of Horses and Mules Inside
		INSIDE			OUTSIDE							
		Plek Miners	Machine Miners and Helpers	Labor- ers	Total	Labor- ers	Coke Workers	Total				
KANAWHA COUNTY	Queen Shoals	10		4	14	1		15	270		3	
	Turner Nos. 1-2			7	53	8		61	201		8	
	Bradley White Ash	26	38	9	35	5		40	200		5	
	Mill Creek	15		5	20	10		30	150		8	
	Wills Hollow Nos. 1-2		25	9	40	5		45	36		2	
	Blakeley No. 3		45	8	68	10		78	127		8	
	Standard Kanawha C. Mining Co.		52	8	76	14		90	166		10	
	Standard Kanawha C. Mining Co.		18	4	24	6		30	89		6	
	Williams		12	4	21	5		26	146		4	
	The Campbells Creek Coal Co.	5	117	28	213	23		236	269		34	
	The Campbells Creek Coal Co.		68	13	125	9		134	245		6	
	Virginia Coal Co.		30	6	48	12		60	230		3	
	Quincy Coal Co.		35	8	55	10		65	230		5	
	Sunday Creek Co.	10	60	8	102	17		119	229		9	
	Sunday Creek Co.		70	10	98	20		118	222		11	
	Sunday Creek No. 5		150	20	220	22		242	210		26	
	Kellys Creek Colliery Co.		20	4	26	2		28	165		3	
	Kellys Creek Colliery Co.		130	18	35	15		198	225		25	
	Hughes Creek Coal Co.		20	31	155	21		176	185		24	
	Nos. 2-3 Splint, No. 4 Gas	215	104	20	35	2		432	272		52	
	Cannellton Coal & Coke Co.		150	12	35	20		20	432		52	
	Cannellton Coal & Coke Co.		4	2	6	2		8	45		19	
	Kanawha Thick Vein No. 3		4	2	6	2		8	45		19	
	Monarch		54	16	35	105	16	121	245		18	
	Coopers Creek Coal Co.	10		1	11			11	125		1	
	The Marnet Coal Co.		40	12	12	64	6	70	213		8	
	The Marnet Coal Co.		25	8	15	51	4	55	95		2	
	The Marnet Coal Co.		60	14	28	102	12	114	210		9	
	The Olcott Coal & Iron Co.		50	10	25	85	10	95	205		2	
	The Olcott Coal & Iron Co.		35	6	12	53	8	61	188		2	
	Olcott No. 2		35	6	12	53	8	61	188		2	
	North	48	37	8	125	12		137	208		9	
	Winfrede Coal Co.		37	8	32	110	8	118	229		14	
	West	82		28	110	8		126	171		11	
	South			32	118	8		126	171		11	
	Coalburg & Mt. Bryson	62	45	12	70	12		82	180		14	
	Dry Branch Coal Co.		10	2	14	1		15	200		2	
	Dry Branch Coal Co.		10	2	14	1		15	200		2	
	Belmont No. 3		60	14	23	97	18	115	210		12	
	Coalburg Colliery Co.		60	14	23	97	18	115	210		12	

Wyatt Coal Co.	Oakley	33	7	22	62	15	77	210	10
Wyatt Coal Co.	Berlin	31	8	21	80	20	100	215	14
Wyatt Coal Co.	Horton No. 1	30	10	20	90	18	108	210	4
Wyatt Coal Co.	Horton No. 2	24	7	15	56	7	73	210	15
Lewis Coal & Coke Co.	Lewiston & Peerless	70	8	9	87	10	97	310	4
The Persinger Coal Co.	Wilton	12	4	6	92	6	28	56	3
Southern Collieries Co.	Larant No. 3	17	3	10	30	15	45	118	3
The Holley-Stephenson C&C. Co.	Stephenson No. 5	50	6	9	65	6	71	120	7
The Holley-Stephenson C&C. Co.	Stephenson No. 2	50	6	11	83	6	89	120	10
Wake Forest Mining Co.	Wake Forest	60	10	10	80	10	90	200	12
Carbon Coal Co.	North Carbon No. 3	14	4	4	18	2	20	102	2
Carbon Coal Co.	Carbon Gas	42	4	12	42	7	49	195	2
Carbon Coal Co.	Carbon Spirit	1	8	11	60	5	65	211	6
Carbon Coal Co.	Low Sulphur or No. 4 Carbon	6	2	2	10	1	11	200	2
Republic Coal Co.	Republic No. 1	15	2	8	30	4	31	220	4
Republic Coal Co.	Republic No. 2	12	3	3	15	2	17	208	1
Republic Coal Co.	Republic No. 3	15	2	9	36	4	40	108	1
Republic Coal Co.	Republic No. 5	12	2	2	17	4	21	130	1
West Virginia Colliery Co.	Wexaro No. 1	20	4	22	84	15	100	240	16
West Virginia Colliery Co.	Wexaro No. 2	5	4	5	21	2	26	215	8
West Virginia Colliery Co.	Wexaro No. 3	10	4	17	53	6	59	203	12
West Virginia Colliery Co.	Wexaro No. 4	60	8	14	82	11	93	227	11
Cabin Creek Cons. Coal Co.	Davis	26	8	16	52	11	63	215	7
Cabin Creek Cons. Coal Co.	Cherokee	13	10	12	46	12	52	252	6
Cabin Creek Cons. Coal Co.	Galedonia	8	6	7	26	2	23	241	4
Cabin Creek Cons. Coal Co.	Red Warrior	10	8	8	26	10	36	243	8
Cabin Creek Cons. Coal Co.	Buckeye	21	1	12	12	4	46	245	8
Cabin Creek Cons. Coal Co.	Empire	18	6	11	35	5	40	219	8
Cabin Creek Cons. Coal Co.	Black Thip	19	8	11	40	4	44	231	7
Cabin Creek Cons. Coal Co.	Keystone	3	3	10	31	6	37	232	6
Cabin Creek Cons. Coal Co.	Acme	11	4	10	28	11	33	243	4
Cabin Creek Cons. Coal Co.	Shanrock	27	10	15	52	7	59	187	6
Cabin Creek Cons. Coal Co.	Thistle	2	2	12	42	5	47	185	6
Cabin Creek Cons. Coal Co.	Raccoon Gas	17	8	12	28	4	42	190	6
Cabin Creek Cons. Coal Co.	Raccoon No. 2 East and West	2	12	22	74	11	85	211	12
Cabin Creek Cons. Coal Co.	Rose	38	4	20	59	9	68	226	10
Cabin Creek Cons. Coal Co.	Kayford	14	12	30	92	70	102	182	10
Cabin Creek Cons. Coal Co.	Holly	5	8	10	36	10	46	221	8
Cabin Creek Cons. Coal Co.	Quarrier	16	6	13	15	11	56	218	8
Cabin Creek Cons. Coal Co.	United Gas	41	10	36	77	18	95	266	12
Cabin Creek Cons. Coal Co.	United Spirit	16	8	15	30	8	47	249	8
Cabin Creek Cons. Coal Co.	Bellefleur	9	8	15	43	13	56	228	6
Cabin Creek Cons. Coal Co.	Ruby	13	6	15	31	6	40	254	8
Cabin Creek Cons. Coal Co.	Reynolds	56	6	25	87	10	94	152	12
Paint Creek Collieries Co.	Knickerbocker	56	6	22	78	6	87	143	10
Paint Creek Collieries Co.	Seranton	35	6	13	59	5	59	85	12
Paint Creek Collieries Co.	Grease Nos. 1-2	36	8	12	56	19	75	139	10
Paint Creek Collieries Co.	Paint Creek	60	10	33	111	20	131	130	13

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYES						Sums Total	Average Number Days Were Operated	Average Number Ovens in Opera- tion Per Plant	Number of Horses and Mules Inside
		INSIDE			OUTSIDE						
		Pick Miners	Machine Miners	Machine Runners and Helpers	Labor- ers	Total	Labor- ers					Coke Workers	Total
RALEIGH COUNTY— <i>Con.</i>	McAlpin Coal Co.	160	10	4	40	214	20	—	20	234	20
	Bailey Wood Coal Co.	56	8	—	45	109	16	—	16	125	11
	Pemberton Coal & Coke Co.	40	—	—	18	58	6	—	6	64	10
	The Gulf Coal Co.	28	14	4	23	69	9	—	9	78	10
	Lynwin Coal Co.	59	—	—	31	90	15	—	15	105	9
	Winding Gulf Colliery Co.	—	50	15	50	115	17	—	17	132	10
Totals		2,150	799	203	1,210	4,362	619	—	619	4,981	385
MERCER COUNTY	Coaldale Coal & Coke Co.	84	—	—	56	140	15	16	31	171	30
	Mill Creek Coal & Coke Co.	—	—	—	—	—	—	—	—	—	—
	Buckeye Coal & Coke Co.	98	—	—	96	194	18	38	56	250	18
	Booth-Bowen Coal & Coke Co.	110	—	—	75	185	15	15	30	215	22
	Poca, Cons. Collieries Co.	66	—	—	44	110	25	15	40	150	167
	Poca, Cons. Collieries Co.	175	—	—	40	215	30	—	30	245	30
	Poca, Cons. Collieries Co.	15	100	10	50	220	35	—	35	255	—
	Louisville Coal & Coke Co.	80	5	2	35	122	25	15	40	162	283
	Godfrey Coal Co.	12	—	—	5	17	5	—	5	22	200
	Crystal Coal & Coke Co.	100	—	—	50	150	30	20	50	200	136
	American C. Co. of Allegheny Co.	25	—	—	15	40	7	—	7	47	8
	American C. Co. of Allegheny Co.	162	—	—	45	207	25	35	60	267	36
	American C. Co. of Allegheny Co.	140	—	—	20	160	52	21	73	233	200
	American C. Co. of Allegheny Co.	10	36	20	20	86	10	10	10	96	24
	Thomas Coal Co.	110	—	—	22	132	21	40	61	193	25
	Thomas Coal Co.	30	—	—	10	40	6	—	6	46	236
	Pawama Coal & Coke Co.	53	—	—	17	70	11	—	11	81	305
	Weyanoke Coal & Coke Co.	43	33	7	33	122	32	—	32	154	10
	Smokelass Coal & Coke Co.	10	25	4	7	46	5	—	5	51	225
	Hawatha Coal & Coke Co.	30	60	6	10	106	25	—	25	131	200
Spring Coal Mining Co.	76	—	—	10	86	18	—	18	104	233	
Wenonah Coal & Coke Co.	30	21	6	11	68	37	—	37	105	251	
Totals		1,465	340	55	671	2,531	452	215	667	3,198	389

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES					Sums Total	Average Number Days Mines Were Operated	Average Number Ovens in Opera- tion Per Plant	Number of Horses and Mules Inside
		INSIDE		OUTSIDE						
		Pick Miners	Machine Miners and Helpers	Labor- ers	Total	Labor- ers					Coke Workers	Total
McDOWELL COUNTY— <i>Con.</i>										
United States Coal & Coke Co.	United No. 5	51	62	10	16	139	7	295	146	17
United States Coal & Coke Co.	United No. 6	60	122	20	48	250	38	295	288	35
United States Coal & Coke Co.	United No. 7	50	142	16	34	242	43	295	285	38
United States Coal & Coke Co.	United No. 8	30	73	12	14	129	19	148	148	29
United States Coal & Coke Co.	United No. 9	2	266	25	142	435	62	295	497	4
United States Coal & Coke Co.	United No. 10		165	20	93	278	31	309	295	34
United States Coal & Coke Co.	United No. 11		142	25	52	219	25	244	246	44
United States Coal & Coke Co.	United No. 12		110	25	14	149	31	180	124	25
Poca. Cons. Collieries Co.	Pocahontas No. 6		25	6	10	41	100	100	141	
Pocahontas Smokeless Coal Co.	Pocahontas	70			10	80	15	255	195	8
Hempill Colliery Co.	Hempill	10	18	6	8	32	5	37	310	3
Welch Coal & Coke Co.	Welch	20	14	6	20	60	8	68	254	7
Oregon Coal Co.	Nos. 2 & 3	25	30	20	38	113	32	145	204	23
Standard Pocahontas Coal Co.	Standard		18	4	19	41	21	62	300	3
Pando Coal Co.	Pando Nos. 1 & 2		25	6	6	37	8	45	259	5
Superior Pocahontas Coal Co.	Blackstone	40			10	50	5	55	240	5
Superior Pocahontas Coal Co.	Davy Crockett No. 2	45			8	53	4	57	240	5
Superior Pocahontas Coal Co.	Helena No. 3	30			3	35	3	38	240	4
Superior Pocahontas Coal Co.	Cleatus No. 4				3	3	3	24	240	3
J. B. B. Coal Co.	JBB No. 1	43	12	4	5	64	6	97	260	10
J. B. B. Coal Co.	JBB No. 2	28	20	18	10	91	7	86	260	12
J. B. B. Coal Co.	JBB No. 3	55	20	14	17	106	12	87	260	12
J. B. B. Coal Co.	JBB No. 4	30	30	28	20	104	10	114	260	16
Solvay Collieries Co.	Marytown	129			26	155	33	188	242	15
Solvay Collieries Co.	Big Sandy	59	10	10	33	112	29	141	230	13
Vaughan Coal & Coke Co.	Vaughan	30			13	43	10	53	244	6
Flanagan Coal Co.	Flanagan No. 1	25			6	31	5	36	267	5
Davy-Pocahontas Coal Co.	Davy No. 2, War Creek No. 1				10	50	15	65	225	6
Premier Pocahontas Collieries	Premier Nos. 1-2-3-4	40			40	180	25	173	251	
Virginia Pocahontas Coal Co.	Number 1 East & West	75			15	90	3	93	310	2
Virginia Pocahontas Coal Co.	Number 2 East & West	40			8	48	3	51	300	2
Virginia Pocahontas Coal Co.	Nos. 3-4-1	45			12	57	4	61	334	5
Virginia Pocahontas Coal Co.	No. 6 East & West		40	14	24	78	5	83	275	

Virginia Pocahontas Coal Co.	23	45	8	24	77	14	91	230	230	2
The Columbia Poca. Coal Co.	4			2	25	5	30	230	230	6
Imperial Pocahontas Coal Co.	30			4	34	3	37	220	220	3
Reynolds Branch Coal Co.	8				8	12	11	180	180	3
Hurricane Branch Coal Co.	18			15	33	12	45	200	200	2
Henricetta Pocahontas Coal Co.	20	3	1	15	39	6	45	250	250	6
Flat Top Mining Co.	18			4	22	4	26	250	250	3
Harmon No. 1	70			14	84	16	100	225	225	10
Dry Fork Colliery Co.	32			2	20	5	25	270	270	1
Buchanan Coal Co.	10			8	40	8	45	180	180	4
Yokon Pocahontas Coal Co.	20			4	24	4	25	60	60	3
Johns Branch Coal Co.	10			2	12	2	14	180	180	2
War Creek Coal Co.	30		6	15	51	7	58	267	267	
Excelsior	40			27	50	3	53	300	300	10
Pocahontas Domestic Coal Co.	24			3	54	4	58	310	310	
New River & Poca. Con. C. Co.	38	20	3	27	196	13	254	365	365	125
Berwind No. 1	20			98	137	45	202	310	310	
New River & Poca. Con. C. Co.	39			13	104	12	176	310	310	
Berwind No. 2	40			82	164	18	163	168	168	
New River & Poca. Con. C. Co.	30		4	4	11	15	101	252	252	14
Lathrop Coal Co.	42		14	30	86					
Mohawk Coal & Coke Co.										
Totals	5,881	3,408	601	2,808	12,758	2,476	16,514	246	107	1,428
LOGAN COUNTY										
Coal River Coal & Coke Co.	12	19	4	8	43	5	53	203	203	3
Spruce Bend Coal Co.		20	4	8	32	8	40	155	155	8
The Coal Valley Mining Co.		25	6	4	35	10	45	207	207	
Scholar	10	24	6	6	44	12	56	92	92	4
Miffin No. 1				2	12	3	15	230	230	3
Black Hawk Colliery Co.				6	61	8	69	161	161	3
Stone Branch Coal Co.	45		19	10	50	8	58	230	230	8
Guyandotte Coal Co.	30		10	6	31	8	39	300	300	3
E. K. Johnson Coal Mining Co.	19		6	6	57	8	65	260	260	7
Draper Coal & Coke Co.	26		10	13	58	12	70	260	260	7
H. T. Wilson Coal Co.	38		8	12	33	8	41	230	230	10
Fort Branch	20		3	11	45	8	53	223	223	6
Price Coal Co.	24		8	10	46	14	60	227	227	6
Manitola	30		6	10	57	9	66	227	227	8
Rex Coal & Coke Co.	26		16	13	62	12	74	200	200	4
The Logan Coal Co.	16		16	18	62	12	74	200	200	4
The Ethel Coal Co.	40		16	21	77	13	90	225	225	17
Edel Nos. 1-2	20		10	67	197	72	269	252	252	14
The Monitor Coal & Coke Co.		100	6	13	74	11	85	212	212	
The Yuma Coal & Coke Co.		55	6	13	60	14	74	220	220	12
The Gay Coal & Coke Co.		30	6	24	44	6	50	175	175	7
Shamrock Coal Co.		30	4	10	44	6	50	175	175	7
Lily		30	4	10	44	6	50	175	175	7
Cora Coal & Coke Co.		30	4	10	44	6	50	175	175	7
United States Coal & Oil Co.		175	6	20	76	12	88	240	240	18
Island Creek No. 1		157	18	90	283	117	400	293	293	32
United States Coal & Oil Co.		175	14	80	251	117	398	296	296	32
Island Creek No. 2		124	12	42	178	20	198	272	272	1
Island Creek No. 3		124	12	42	178	20	198	272	272	1
Island Creek No. 4		148	12	50	210	22	232	266	266	

DETAIL OF MEN EMPLOYED AT THE MINES AND OVENS FOR THE YEAR ENDING JUNE 30, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	EMPLOYEES						Sums Total	Average Number Days Mines Were Operated	Average Number Ovens in Opera- tion Per Plant	Number of Horses and Mules Inside
		INSIDE			OUTSIDE						
		Pick Miner	Machine Miners	Machine Runners and Helpers	Labor- ers	Total	Labor- ers					Coke Workers	Total
LOGAN COUNTY—Co.											
United States Coal & Oil Co.	Island Creek Nos. 5-6		80	10	39	129	17		17	146	1
United States Coal & Oil Co.	Island Creek No. 7		44	6	24	74	2		2	76	1
United States Coal & Oil Co.	Island Creek No. 8		28	4	18	50	1		1	51	1
United States Coal & Oil Co.	Island Creek Nos. 9-10		54	6	20	80	9		9	89	2
Manbar Coal Co.	Manbar		6	2	3	11	1		1	12	4
Perdute Coal Co.	Earling		18	4	10	32	8		8	40	
Aracoma Coal Co.	Aracoma Nos. 1-2		50	6	10	66	10		10	76	
Kohlnoor Coal & Coke Co.	Big Vein		20	4	3	27	5		5	32	
Totals		62	1,583	257	683	2,555	490		490	3,075	190
MINGO COUNTY											
Thd Jas. R. Shaulkin Coal Co.	Naugatuck		55	10	30	95	7		7	102	9
Grey Eagle Coal Co.	Grey Eagle		35	10	5	50				50	5
The Buffalo Collieries Co.	Buffalo		50	20	40	110	30		30	140	8
Howard Colliery Co.	Howard		30	20	48	98	10		10	108	12
Howard Jr. Colliery Co.	Howard Junior		24	22	29	75	29		29	104	236
E. L. Sternberger Coal Co.	Sternberger		33	4	26	63	39		39	102	8
Williamson Coal & Coke Co.	Williamson No. 3		50	10	24	84	20		20	104	8
Superior Thacker Coal & Coke Co.	Williamson No. 1	3	10	3	3	19	4		4	23	2
Crystal Block Coal & Coke Co.	Winifrede No. 1		34	4	10	48	17		17	65	9
The White Star Mining Co.	White Star		20	10	14	44	8		8	52	2
Great Bend Coal Co.	Great Bend		12	4	8	24	6		6	30	4
Marion Coal Co.	Marion		20	12	10	42	10		10	52	10
Red Jacket Con. Coal & Coke Co.	Rutherford	19			32	51	4		4	55	6
Red Jacket Con. Coal & Coke Co.	Red Jacket	32			15	47	15		15	62	10
Red Jacket Con. Coal & Coke Co.	Lick Ford	16			17	33	4		4	37	8
Red Jacket Con. Coal & Coke Co.	Graperine	16			10	26	5		5	31	
Red Jacket Con. Coal & Coke Co.	Mitchell Branch		90	10	158	258	32		32	290	
Magnolia Coal & Coke Co.	Magnolia		16		9	33	11		11	44	
Thacker Coal & Coke Co.	Nos. 2-3-4-7-8-9		110	10	50	170	30		30	200	
Thacker Coal & Coke Co.	Thacker No. 10		112	2	4	118	4		4	122	
Thacker Coal & Coke Co.	Thacker Nos. 11-12-13-14		25	8	30	63	50		50	113	1

Red Jacket Jr. Coal Co.....	Nos. 1-2.....	71	29	76	176	37	37	213	249	12
Glen Alum Coal Co.....	Nos. 1-2-3.....	70	30	90	220	30	30	250	240	10
War Eagle Coal Co.....	Papoose.....	30	10	20	60	15	15	75	150	10
War Eagle Coal Co.....	Met liste.....	25	10	15	50	12	12	62	190	10
Margaret Mining Co.....	Margaret No. 1.....	24	6	10	40	10	10	50	220	3
Sycamore Coal Co.....	Cinderella.....	32	10	21	83	12	12	95	273	8
Mary Helen Coal Co.....	Mary Helen.....	25	10	20	55	20	20	75	230	10
Chatteroy Colliery Co.....	Chatteroy.....	27	12	14	46	9	9	55	200	185
Totals.....		228	253	838	2,481	480	480	2,761	227	9
WAYNE COUNTY										
East Lynn Coal Co.....	Sagamore.....	33	5	13	51	17	17	68	274	9
Totals.....		33	5	13	51	17	17	68	274	9

**NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE
OVENS, BY COUNTIES FOR THE YEAR ENDING JUNE 30TH, 1912.**

COUNTY	No. of Mines Operated.	No. of Mines Report- ing Nationalities.	American.	Austrian.	Belgian.	Bohemian.	Danish.	English.	French.	German.	Greek.	Hungarian.	Irish.
Brooke.....	6	6	220	79				12		7		63	6
Marion.....	34	34	1,857	271		20	3	30	35	59	21	271	129
Marshall.....	7	7	292	9		11		11	1	19	7	111	8
Ohio.....	5	5	122	59				11	6	6	12	15	
Lewis.....	1	1	22	10								10	
Harrison.....	66	66	2,116	199		7		15		33		248	10
Upshur.....	3	3	56	4		1		10		2		5	
Barbour.....	14	14	486							1		81	
Monongalia.....	7	5	191										
Preston.....	15	14	746	38						4	1	20	6
Taylor.....	10	9	411	13		1				2		20	6
Grant.....	2	2	32							3			
Mineral.....	18	18	572	42				11				1	1
Randolph.....	12	12	375	7		3		1		5		12	2
Tucker.....	15	15	379	80				7		3		57	
Braxton.....	4	4	108	20				4		1		44	
Gilmer.....	3	3	67										
Mason.....	3	3	237										
Putnam.....	3	3	285									200	
Clay.....	3	3	123	10		8						12	
Fayette.....	103	102	6,625	64	2	7	6	185	6	192	20	292	42
Kanawha.....	99	98	4,940	1		1		6	1	36	5	154	
Boone.....	8	8	316								31	2	
Nicholas.....	5	5	73									12	
Greenbrier.....	1	1	21	25									
Raleigh.....	43	43	2,393	50				37		42	130	206	34
Mercer.....	22	22	1,265					14		29		238	35
McDowell.....	103	102	5,504	4	4			38		96	115	2,302	29
Logan.....	33	33	1,568	74				21	2	14		364	22
Mingo.....	29	28	1,508	9				5		13		202	5
Wayne.....	1	1	66										
Totals.....	678	671	31,696	1,091	6	59	9	418	51	567	342	4,942	326

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, BY COUNTIES FOR THE YEAR ENDING JUNE 30TH, 1912.

Italian.	Lithuanian.	Negro.	Polish.	Romanian.	Russian.	Slavish.	Scotch.	Swedish.	Syrian.	Welsh.	Servian.	Guinea Negro.	Croatian.	Harwatt.	Spanish.	Bulgarian.	Unknown.	Total Inside Employees.	Total Outside Employees, Except Coke Yard.	Total Coke Employees.	Grand Total.
217	23	27	43	27	25	21	21	26	18	20	16						4	710	83		793
1,126	53	143	292	21	106	308	26	18	20	1			62	40			1	3,976	869	59	4,904
174	18	55	34	21	6	3				5								671	114		785
27	17	55	60			18												371	37		408
20																		52	10		62
1,244	25	127	233	7	31	415	19	3	26	1				1			2	3,910	852		4,762
27		2		4	10													93	28		121
121	32	89	128			5											2	779	161	5	945
69		36				2	1										138	350	50	37	437
171	1	137	26	1		33											68	1,004	141	107	1,252
74	4	24	22		26	155	2										16	651	118	7	776
7		25	3		13														73	23	96
74	24	25	11			5		1										654	113		767
239	27	20	34		4	17	5											603	79	69	751
513	125	70	176		54	131	4											1,337	203	59	1,599
43	8	9				4												214	27		241
25						1												77	16		93
		8																217	28		245
210		193	50															849	89		938
20	4	8	4															159	30		189
1,390	100	3,091	391	11	155	236	40	14	8	1							20	10,132	1,710	456	12,298
486	1	875	85	20	32	11	23	2	4	4							16	5,681	1,022		6,703
9		63	1				2											332	92		424
13		10			2	10												116	22	3	141
						8													46	9	55
516	68	997	198		44	189	42							25			10	4,362	619		4,981
328		1,214	13		24	87		1										2,531	452	215	3,198
1,886	25	5,394	344	157	232	345	10	10						3			16	12,758	2,476	1,280	16,514
330	22	213	112	91	78	98	2	2							60			2,585	490		3,075
342		491	32	4		38		3									9	2,181	480		2,661
		2																51	17		68
9,701	577	13,403	2,293	312	863	2,120	200	51	63	12	16		62	41	28	60	302	56,853	10,461	2,297	69,611

*NATIONALITIES EMPLOYED AND THEIR PERCENTAGE JUNE
30TH, 1912.*

No.	NATIONALITIES	Total Number Employed	Percentage of Total National- ities Reported	Percentage of Total Number of Employees
1	American (White).....	31,696	45,731	45,543
2	Austrian.....	1,091	1,574	1,567
3	Belgian.....	6	8	7
4	Bohemian.....	59	85	83
5	Danish.....	9	12	11
6	English.....	418	603	600
7	French.....	51	73	72
8	German.....	567	818	814
9	Hungarian.....	4,942	7,136	7,199
10	Irish.....	326	470	468
11	Greek.....	342	493	491
12	Italian.....	9,701	13,908	13,946
13	Lithuanian.....	577	832	828
14	Negro.....	13,403	19,338	19,262
15	Polish.....	2,293	3,308	3,294
16	Roumanian.....	312	450	448
17	Russian.....	863	1,245	1,238
18	Slavish.....	2,120	3,058	3,045
19	Scotch.....	200	288	286
20	Swedish.....	51	73	72
21	Syrian.....	63	91	88
22	Welsh.....	12	17	16
23	Servian.....	16	23	21
24	Croatian.....	62	90	88
25	Harwatt.....	41	59	57
26	Spanish.....	28	41	39
27	Bulgarian.....	60	86	84
	Totals.....	69,309	100,000	-----
	Unknown.....	302	-----	433
	Grand Totals.....	69,611	100,000	100,000

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.															
	American.	Austrian.	Belgian.	Bohemian.	Danish.	English.	French.	German.	Greek.	Hungarian.	Irish.	Italian.	Lithuanian.	Negro.	Polish.	Romanian.
Brooke.....	159 61	79				12				61 2	5 1	206 11	23	22 5	43	
Totals.....	220	97				12				63	6	217	23	27	43	
Marion.....	1,231 612 14	246 25		17 3	2 1	29 1	28 7	56 3	19 2	264 7	111 9	1,315 38	53	131 12	284 6	18 3
Totals.....	1,857	271		20	3	30	35	59	21	271	120	1,426	53	143	292	21
Marshall.....	230 62	6 3		11		11	1	19	7	101 10	8	160 14	18	30 25	34	
Totals.....	292	9		11		11	1	19	7	111	8	174	18	55	34	
Ohio.....	98 24	53				11	6	6	12	15		27	17	38 17	59 1	
Totals.....	122	59				11	6	6	12	15		27	17	55	60	
Harrison.....	1,379 737	190 9		6 1		15		33		237 11	10	1,211 33	25	115 12	222 11	7
Totals.....	2,116	199		7		15		33		248	10	1,244	25	127	233	7
Lewis.....	12 10	10								10		20				
Totals.....	22	10								10		20				
Upshur.....	48 8	4		1		10		2		5		17 10		2		4
Totals.....	56	4		1		10		2		5		27		2		4

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	Russian.	Slavish.	Scotch.	Swedish.	Syrian.	Welsh.	Servian.	Guinea Negro.	Croatian.	Harwall.	S. Santh.	Bulgarian.	Unknown.	Total Inside Employees.	Total Outside Employees (Except Coke Yard)	Total Coke Yard Employees.	Grand Total.
Brooke	Inside.....	27	28	19				15						4	710	83		
	Outside.....		2	2				1										
Totals		27	28	21				16						4	710	83		793
Marion	Inside.....	99	296	29	15	16	1		62	40				1	3,976	869	59	
	Outside.....	7	7	6	3	4												
	Coke Yard.....	5	5															
Totals		106	308	26	18	20	1		62	40				1	3,976	869	59	4,904
Marshall	Inside.....	21	6	3			5								671	114		
	Outside.....																	
Totals		21	6	3			5								671	114		785
Ohio	Inside.....		18												360			
	Outside.....															48		
Totals			18												360	48		408
Harrison	Inside.....	29	388	14	3	23					1			2	3,910	852		
	Outside.....	2	27	5		3	1											
Totals		31	415	19	3	26	1				1			2	3,910	852		4,762
Lewis	Inside.....														52			
	Outside.....															10		
Totals															52	10		62
Upshur	Inside.....	10													93			
	Outside.....															28		
Totals		10													93	28		121

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	American.	Austrian.	Belgian.	Bohemian.	Danish.	English.	French.	German.	Greek.	Hungarian.	Irish.	Italian.	Lithuanian.	Negro.	Polish.	Romanian.
Barbour	Inside	355							1		79		111	32	68	128	
	Outside	131									2		5		21		
	Coke Yard												5				
Totals		486							1		81		121	32	89	128	
	Inside	149											33		36		
	Outside	40											2				
Monongalia	Inside	2											34				
	Outside																
	Coke Yard																
Totals		191											69		36		
Preston	Inside	669	19						4		18	3	153	1	93	23	
	Outside	110	1										9		14		
	Coke Yard	27	18						1	1	2	3	9		30	3	1
Totals		746	38						4	1	20	6	171	1	137	26	1
Taylor	Inside	386	13		1				2		20	6	74	4	24	22	
	Outside	118															
	Coke Yard	7															
Totals		411	13		1				2		20	6	74	4	24	22	
Grant	Inside	13	13						1				5		25	3	
	Outside	19							2				2				
Totals		32	13						3				7		25	3	
Mineral	Inside	476	37				11				1	1	70	24	18	11	
	Outside	96	5										4		7		
Totals		572	42				11				1	1	74	24	25	11	

NATIONALITIES OF NINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	Russian.	Slavish	Scotch.	Swedish.	Syrian.	Welsh.	Serbian.	Guinea Negro.	Croatian.	Harwall.	S. anish.	Bulgarian.	Unknown.	Total Inside Employees.	Total Outside Employees, (Except Coke Yard.)	Total Coke Yard Employees.	Grand Total.
Barbour	Inside	—	3	—	—	—	—	—	—	—	—	—	—	2	779	161	—	—
	Outside Coke Yard	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	5	—
Totals		—	5	—	—	—	—	—	—	—	—	—	—	2	779	161	5	945
Monongalia	Inside	—	1	1	—	—	—	—	—	—	—	—	—	—	350	50	—	—
	Outside Coke Yard	—	1	—	—	—	—	—	—	—	—	—	—	8	—	37	—	—
Totals		—	2	1	—	—	—	—	—	—	—	—	—	138	350	87	—	437
Preston	Inside	—	20	—	—	—	—	—	—	—	—	—	—	61	1,004	141	—	—
	Outside Coke Yard	—	13	—	—	—	—	—	—	—	—	—	—	7	—	107	—	—
Totals		—	33	—	—	—	—	—	—	—	—	—	—	68	1,004	141	107	1,252
Taylor	Inside	26	155	2	—	—	—	—	—	—	—	—	—	16	651	118	—	—
	Outside Coke Yard	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	—	—
Totals		26	155	2	—	—	—	—	—	—	—	—	—	16	651	118	7	776
Grant	Inside	13	—	—	—	—	—	—	—	—	—	—	—	—	73	23	—	—
	Outside	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		13	—	—	—	—	—	—	—	—	—	—	—	—	73	23	—	96
Mineral	Inside	—	5	—	1	—	—	—	—	—	—	—	—	—	654	113	—	—
	Outside	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		—	5	—	1	—	—	—	—	—	—	—	—	—	654	113	—	767

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	American.	Austrian.	Belgian.	Bohemian.	Danish.	English.	French.	German.	Greek.	Hungarian.	Irish.	Italian.	Lithuanian.	Negro.	Polish.	Romanian.
Randolph	Inside	311	7		3						12	2	157	27	20	34	
	Outside Coke Yard	63 1					1		4 1				14 6				
Totals		375	7		3		1		5		12	2	230	27	20	34	
Tucker	Inside	299	80				6		3		57		361	121	59	167	
	Outside Coke Yard	79 1					1						97 55	4 1	19 1	9	
Totals		370	80				7		3		57		513	125	70	176	
Braxton	Inside	87	20				3		1		41		41	8	9		
	Outside	21					1				3		2				
Totals		108	20				4		1		44		43	8	9		
Gilmer	Inside	51											25				
	Outside	16															
Totals		67											25				
Mason	Inside	209													8		
	Outside	28															
Totals		237													8		
Putnam	Inside	236									200		200		163	50	
	Outside	49											10		30		
Totals		285									200		210		193	50	
Clay	Inside	99	10		8						12		18	4	6	2	
	Outside	24											2		2	2	
Totals		123	10		8						12		20	4	8	4	

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	Russian.	Slavish.	Scotch.	Swedish.	Syrian.	Welsh.	Servian.	Guinea Negro.	Croatian.	Harwall.	S. ansh.	Bulgarian.	Unknown.	Total Inside Employees.	Total (Outside Employees, Except Coke Yard.)	Total (Coke Yard Employees.	Grand Total.
Randolph	Inside	4	17	5											603	79	69	
	Outside																	
	Coke Yard																	
Totals		4	17	5											603	79	69	751
Tucker	Inside	52	128	4											1,337	203	59	
	Outside		3															
	Coke Yard	2																
Totals		54	131	4											1,337	203	59	1,599
Braxton	Inside		4												214			
	Outside															27		
Totals			4												214	27		241
Gilmer	Inside		1												77	16		
	Outside																	
Totals			1												77	16		93
Mason	Inside														217	2		
	Outside																	
Totals															217	2		245
Punam	Inside														849	89		
	Outside																	
Totals															849	89		938
Clay	Inside														159	30		
	Outside																	
Totals															159	30		189

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	American.	Austrian.	Belgian.	Bohemian.	Danish.	English.	French.	German.	Greek.	Hungarian.	Irish.	Italian.	Lithuanian.	Negro.	Polish.	Romanian.
Fayette	Inside	4,770	59	2	7	6	185	6	192	14	280	42	1,216	80	2,142	369	1
	Outside Coke Yard	1,181	4	—	—	—	2	—	—	6	12	—	131	5	339	21	3
Totals		6,225	64	2	7	6	185	6	192	20	292	12	1,390	100	3,091	391	11
Kanawha	Inside	46,466	1	—	1	—	6	1	36	—	132	—	436	3	785	85	18
	Outside	872	—	—	—	—	—	—	—	5	2	—	50	—	90	—	2
Totals		4,938	1	—	1	—	6	1	36	5	154	—	486	3	875	85	20
Boone	Inside	230	—	—	—	—	—	—	—	30	2	—	7	—	61	—	—
	Outside	86	—	—	—	—	—	—	—	1	—	—	2	—	2	1	—
Totals		316	—	—	—	—	—	—	—	31	2	—	9	—	63	1	—
Nicholas	Inside	57	—	—	—	—	—	—	—	—	11	—	11	—	8	17	—
	Outside Coke Yard	14	—	—	—	—	—	—	—	—	—	—	2	—	2	4	—
Totals		73	—	—	—	—	—	—	—	—	12	—	13	—	10	21	—
Greenbrier	Inside	14	25	—	—	—	—	—	—	—	—	—	—	—	—	1	—
	Outside	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Totals		21	25	—	—	—	—	—	—	—	—	—	—	—	—	1	—
Raleigh	Inside	1,470	50	—	—	37	—	—	36	129	205	32	395	68	941	196	—
	Outside	423	—	—	—	—	—	—	6	1	1	2	121	—	56	2	—
Totals		2,393	50	—	—	37	—	—	42	136	206	34	516	68	997	198	—
Mercer	Inside	909	—	—	—	—	—	—	29	—	236	35	265	—	911	12	—
	Outside Coke Yard	261	—	—	—	—	—	—	—	—	2	—	38	—	38	148	1
Totals		35	—	—	—	—	—	—	—	—	—	—	25	—	155	—	—
Totals		1,205	—	—	—	14	—	—	29	—	238	35	328	—	1,214	13	—

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.		Russian.	Slavish.	Polish.	Swedish.	Syrian.	Welsh.	Serbian.	Guinea Negro.	Croatian.	Harwall.	S. anish.	Bulgarian.	Unknown.	Total Inside Employees.	Total (Outside Employees, Except Coke Yard)	Total (Coke Yard Employees.	Grand Total.
Fayette	Inside	154	228	38	14	8	1								20	10,132	1,710		
	Outside	1	3	2														456	
	Coke Yard.		5																
Totals.		155	236	40	14	8	1								20	10,132	1,710	456	12,298
Kanawha	Inside	31	11	23	2	4	3								16	5,681	1,022		
	Outside	1																	
Totals.		32	11	23	2	4	4								16	5,681	1,022		6,703
Boone	Inside																		
	Outside			2												332	92		
Totals.				2												332	92		424
Nicholas	Inside	2	10													116	22		
	Outside																		
	Coke Yard																		
Totals.		2	10													116	22	3	141
Greenbrier	Inside		6													46	9		
	Outside		2																
Totals.			8													46	9		55
Raleigh	Inside	44	184	40									25		10	4,362	619		
	Outside		5	2															
Totals.		44	189	42									25		10	4,362	619		4,981
Mercer	Inside	21	37		1											2,531	452	215	
	Outside																		
	Coke Yard																		
Totals.		24	37		1											2,531	452	215	3,198

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	American.	Austrian.	Hellenic.	Bohemian.	Danish.	English.	French.	German.	Greek.	Hungarian.	Irish.	Italian.	Lithuanian.	Negro.	Polish.	Romanian.
McDowell	Inside	3,968	4	4			34		95	87	2,145	24	1,386	25	3,906	334	147
	Outside	1,414					4		1	9	89	5	272		646	9	10
	Coke Yard	122								19	68		228		542	1	
Totals		5,504	4	4			38		96	115	2,302	29	1,886	25	5,394	344	157
Logan	Inside	1,209	64				19	2	9		340	20	287	22	190	101	86
	Outside	359	10				2		5		24	2	43		23	11	6
	Totals	1,568	74				21	2	14		364	22	330	22	213	112	92
Mingo	Inside	1,166	9				5		13		196	5	270		436	31	
	Outside	342									6		72		55	1	
	Totals	1,508	9				5		13		202	5	342		491	32	
Wayne	Inside	49													2		
	Outside	17															
	Totals	66													2		
Totals for the State	Inside	24,156	1,009	6	55	8	395	44	549	298	4,700	304	8,089	553	10,549	2,207	280
	Outside	7,255	63		4	1	25	7	18	24	171	19	1,107	9	1,516	79	24
	Coke Yard	289								20	71	3	565	15	1,338	7	8
Grand Totals		31,695	1,091	6	59	9	418	51	567	342	4,942	326	9,701	577	13,403	2,293	312

NATIONALITIES OF MINE EMPLOYEES SUMMARIZED—1912.

COUNTY	Where Employed.	Russian.	Slavish.	Scotch.	Swedish.	Syrian.	Welsh.	Servian.	Guinea Negro.	(Croatian.	Harwall.	Serbian.	Bulgarian.	Unknown.	Total Inside Employees.	Total (Outside Employees. (Excl. Coke Yard.)	Total (Coke Yard Employees.	Grand Total.
McDowell.....	Inside.....	225	342	8	10							3		14	12,758	2,476		
	Outside.....	7	3	2										2			1,280	
	Coke Yard.....																	
Totals.....																		
Logan.....	Inside.....	232	345	10	10							3	60	16	12,758	2,476	1,280	16,514
	Outside.....	78	92	2	2	2									2,555	490		
	Coke Yard.....		3															
Totals.....																		
Mingo.....	Inside.....	78	98	2	2	2							60		2,585	490		3,075
	Outside.....	4	36			1									2,151	480		
	Coke Yard.....		2			2												
Totals.....																		
Wayne.....	Inside.....	4	38			3									2,181	480		2,661
	Outside.....														51	17		
	Coke Yard.....																	
Totals.....																		
Wayne.....	Inside.....														51	17		68
	Outside.....																	
	Coke Yard.....																	
Totals.....																		
Totals for the State.....	Inside.....	843	2,057	181	47	54	10	15		62	41	25	60	285	56,853	10,461		
	Outside.....	18	59	19	4	9	2	1				3		17			2,297	
	Coke Yard.....	2	24															
Grand Totals.....		863	2,120	200	51	63	12	16		62	41	28	60	320	56,853	10,461	2,297	69,611

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
BROOKE COUNTY.	West Virginia & Pittsburg Coal Co.	Inside.	15	4						1			3	10					
	W. Va.-Pittsburg No. 3	Outside.	8																
	West Virginia & Pittsburg Coal Co.	Inside.	30											40		8			
	West Virginia & Pittsburg Coal Co.	Outside.	12																
	West Virginia & Pittsburg Coal Co.	Inside.	26									27		94			21		
	West Virginia & Pittsburg Coal Co.	Outside.	17									9				3			
	Beech Bottom Coal Co.	Inside.	10	55						5		30		2		12			
	Beech Bottom Coal Co.	Outside.	5											40		12			
La Belle Coal Co.	Lewis No. 1	Inside.	53											40		12			
	La Belle Coal Co.	Outside.	10											22		23			
	La Belle Coal Co.	Inside.	31	20				12		1		4	2	2			19		27
	La Belle Shaft	Outside.	9										1						
Total			220	79			12			7		63	6	217	23		27	43	
MARION COUNTY.	The Consolidation Coal Co.	Inside.	68											27			5		2
	The Consolidation Coal Co.	Outside.	35									10	1	4					
	The Consolidation Coal Co.	Inside.	48	16						4		22		1			7	1	3
	The Consolidation Coal Co.	Outside.	14																
	The Consolidation Coal Co.	Inside.	73					3			15			88	1		7		
	The Consolidation Coal Co.	Outside.	58											10					
	The Consolidation Coal Co.	Inside.	26							2		3		34			2		6
	The Consolidation Coal Co.	Outside.	13											11					
	The Consolidation Coal Co.	Inside.	20							1		2	2	17			1		
	The Consolidation Coal Co.	Outside.	7											92			2		
	The Consolidation Coal Co.	Inside.	12					1						7					
	The Consolidation Coal Co.	Outside.	17											7			1		
The Consolidation Coal Co.	The Consolidation Coal Co.	Inside.	68	6						1			1	84			21		
	The Consolidation Coal Co.	Outside.	36																
	The Consolidation Coal Co.	Inside.	47	4						5				23			13		1
	The Consolidation Coal Co.	Outside.	27											4					
Coke Yard			10											1				2	

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Rumanian	Russian
MARION COUNTY— <i>Con.</i>	The Consolidation Coal Co.	Consolidation No. 45.	31	15					4					4			4		
		Inside																	
		Outside	15																
	The Consolidation Coal Co.	Consolidation No. 47.	42						2				3	31	6		24		
		Inside	13																
		Outside	30											87	3		2		
	The Consolidation Coal Co.	Consolidation No. 53.	20									1		5					
		Inside	50						6				8	95		10	5		
		Outside	35											10					
	The Consolidation Coal Co.	Consolidation No. 59.	3											9			3		
		Inside	2											3					
		Outside	47	2				3				8	5	29	3	15	16		2
	The Consolidation Coal Co.	Consolidation No. 63.	20									2		18					
		Inside	4											30		2			
		Coke Yard	40																
	The Consolidation Coal Co.	Consolidation No. 67.	20											41		3	8		
		Inside	30											6					
	The Consolidation Coal Co.	Consolidation No. 68.	19											14			1		
		Outside	12	3										6					
	The Consolidation Coal Co.	Consolidation No. 84.	1											6					
		Inside	1																
		Outside	1																
	Jamison Coal & Coke Co.	Jamison No. 7.	15	62										21		12	20		
		Inside	13						10			41	5	26		1		3	
		Outside	52	36								28	4	52	6	2	41	13	26
	Jamison Coal & Coke Co.	Jamison No. 8.	24	4					2	10				2			2		
		Inside												15					
		Outside												8		59		4	
	Jamison Coal & Coke Co.	Jamison No. 9.	39	38								3		3			3		
		Inside	40	3										2			2		
	New Central Coal Co.	Stafford	24									90		3		8			
		Inside	29											3					
		Outside	23											4					
	Federal Coal & Coke Co.	Federal No. 1.	92	60								16		48	16	27	16		38
		Inside	39											19					
		Outside	140										62				6		
	The Virginia & Pittsburgh C. & C. Co.	Kingmont	33											10					
		Inside																	
		Outside																	
		Coke Yard																	4

Total 5,513

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OFENS. FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total (Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
MARION COUNTY--Con. The Virginia & Pittsburg C. & C. Co.	Morgan.....	Inside.....													48	8		56
	Parker Run.....	Outside.....	15												57	9		66
	Harry B. Nos. 2-3-4-5.....	Outside.....													33	3		36
	Harry B. Coal Co.....	Inside.....													21	4		25
	Kilarn Coal & Coke Co.....	Outside.....	1	1											22	3		25
	Pittsburg Steam Coal Co.....	Inside.....													18	2		20
	Catawba Coal Co.....	Outside.....													55	11		67
	Dakota Coal Co.....	Inside.....													16	4		20
	Phillips Coal Co.....	Outside.....													319	78		397
	Four States Coal & Coke Co.....	Inside.....	22	15	14	9					25				10	2		12
	Annabelle No. 1-2.....	Outside.....	5	6	3	4												
	James.....	Inside.....																
	Robinson Coal Co.....	Outside.....																
Totals.....			308	26	18	20	1			62	40			1	3,976	869	59	4,904
MARSHALL COUNTY. Hitchman Coal & Coke Co.	Hitchman.....	Inside.....													256	45		301
	Benwood.....	Outside.....													101	23		124
	Wheeling Steel & Iron Co.....	Inside.....													95	12		107
	Mound Coal Co.....	Outside.....	6	3		5									44	10		54
	Parrs Run Coal Co.....	Inside.....																
	Ben Franklin Coal Co.....	Outside.....													97	12		109

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
MARSHALL COUNTY—Con. Kuntz Bros. & Miller.....	Boggs Run.....	Inside.....	3															
		Outside.....	2															
	Glensdale.....	Inside.....	9						5				25			2		
		Outside.....	5															
Totals.....			292	9	11		11	1	19	7	111	8	174	18	55	34		21
OHIO COUNTY Richland Coal Co.....	Richland.....	Inside.....	30	53			11	6	6	12	15		12	17	19	59		
		Outside.....	16	6												2		
	The Elm Grove Coal Co.....	Inside.....	29												18	1		
		Outside.....													15			
	Whitaker-Glessner Co.....	Inside.....	41													15		
		Outside.....	5															
	J. S. Creighton.....	Inside.....	3												1			
		Outside.....	1															
	Peter Storch & Sons.....	Inside.....	4															
		Outside.....	2															
Totals.....			122	59			11	6	6	12	15		27	17	55	60		
HARRISON COUNTY The Consolidation Coal Co.....	Consolidation No. 21.....	Inside.....	39	1							15	2	23	1	8	30		3
		Outside.....	50										7		1			
	Consolidation No. 23.....	Inside.....	15										9			2		
		Outside.....	4															
	Consolidation No. 25.....	Inside.....	20								19	1	10	2	7	5		1
		Outside.....	34								1		2					
	Consolidation No. 27.....	Inside.....	23										27					
		Outside.....	15										1					
	Consolidation No. 29.....	Inside.....	18								3		5	2	4			
		Outside.....	18								2							
The Consolidation Coal Co.....	Consolidation No. 32.....	Inside.....	53	8					4		15	1	38			13		7
		Outside.....	30								2		8			4		2

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scottish	Swedish	Syrian	Welsh	Serbian	Guinea Negro	Croian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Temp. Yees	Grand Total
MARSHALL COUNTY—Con.	Kuntz Bros. & Miller.	Inside.													10	2		12
		Outside.													68	10		78
	Glendale Coal Co.	Outside.													67	114		181
Totals			6	3			5											78
OHIO COUNTY	Richland Coal Co.	Inside.	18												258	25		283
		Outside.													53	15		68
	The Elm Grove Coal Co.	Inside.													41	3		46
	Whitaker-Glesner Co.	Inside.													4	1		5
	J. S. Creighton.	Outside.													4	2		6
	Peter Storch & Sons	Inside.																
	Storch.	Outside.																
Totals			18												360	48		408
HARRISON COUNTY	The Consolidation Coal Co.	Inside.	15	1	3		1								162	58		220
		Outside.													34	5		39
	The Consolidation Coal Co.	Inside.	8												135	42		177
	The Consolidation Coal Co.	Outside.	60	1	9										50	16		66
	The Consolidation Coal Co.	Inside.	3	2											62	25		87
	The Consolidation Coal Co.	Outside.	30												142	47		189
	The Consolidation Coal Co.	Inside.	1															
Totals			118	4	12		1								463	146		609

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
HARRISON COUNTY—Con.																		
The Consolidation Coal Co.	Consolidation No. 62	Inside	15	1									8	2	4	3		
		Outside	5															
The Consolidation Coal Co.	Consolidation No. 64	Inside	23	9									23					
		Outside	16															
The Consolidation Coal Co.	Consolidation No. 65	Inside	23									5	20		2	3		
		Outside	12										3					
The Consolidation Coal Co.	Consolidation No. 66	Inside	26								2		31					3
		Outside	14								1		3					
Virginia-Maryland Coal Corp.	Willard Nos. 1 & 2	Inside	40	20					1		20		42		11	1		
		Outside	15										6		5			
Corona Coal & Coke Co.	Harold	Inside	43						1				25		4	5		
		Outside	7										2					
Central Fairmont Coal Co.	Snake Hill	Inside	18						2			3	3		5			
		Outside	5															
Vincent Coal Co.	Grasselli	Inside	20										20					
		Outside	7															
Haywood Coal Mining Co.	Monroe	Inside	15								25		10			14		
		Outside	5								1							
Hutchinson Coal Co.	Erie	Inside	35										65	3	3	10		
		Outside																
Hutchinson Coal Co.	McCandlish	Inside	28						6				60					
		Outside	2										5					
Hutchinson Coal Co.	Delta	Inside	11										15		10			
		Outside	2										3					
Hutchinson Coal Co.	York	Inside	2										6		4			
		Outside																
Hutchinson Coal Co.	Hutchinson	Inside	40	42					2		4		23	2		2		
		Outside											12					
Harrison County Coal Co.	Overholt	Inside	11	5									36					
		Outside	4															
Lamberts Run Coal Co.	Clanson	Inside	20								10		10					
		Outside	10															
		Inside	3															
Righter Coal & Coke Co.	Righter	Outside	7										20			1		

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
HARRISON COUNTY—Con.																			
Hero Coal & Coke Co.	Hero.	Inside	18												7				
		Outside	3																
Blue Ridge Coal Co.	Thompson	Inside	9																
		Outside	2																
Rosebud Fuel Co.	Rosebud No. 1	Inside	3												17				
		Outside	1												1				
Rosebud Fuel Co.	Rosebud No. 2	Inside	13												40		4		
		Outside	5												4				
National Coal Co.	Dola	Inside	12	1									12	1			5		
		Outside	1										1						
Fayette Coal Co.	Fayette	Inside	18					5		2			6	13					
		Outside	6																
Short Line Coal Co.	Girard	Inside	23	1										13					
		Outside	6																
Fairmont & Baltimore Coal & Coke Co.	Fairmore	Inside	29											22			18		
		Outside	10																
Madera-Hill-Clark Coal Co.	Goff	Inside	24											33		2			
		Outside	7											2					
Madera-Hill-Clark Coal Co.	Waldo	Inside	15											25					
		Outside	11																
Madera-Hill-Clark Coal Co.	Randolph	Inside	44	1					2				4	40		9	7		1
		Outside	25										1	6			3		
Madera-Hill-Clark Coal Co.	New Chieftain	Inside	17							1			1						
Orr Coal Mining Company	Miller Nos. 1 & 2	Inside	31																
		Outside	4																
O'Gara Coal Mining Co.	O'Gara	Inside	20	15				1						25		7	10		
		Outside	15																
Duquesne Coal Co.	Phoenix	Inside	9											7					
		Outside																	
Harry B. Coal Co.	Pitcairn	Inside	22	1									2	55	2		8	13	
		Outside	7											3			2	1	
Marshall Coal Co.	Marshall	Inside	36										7	51			5		
		Outside	14											2					

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
HARRISON COUNTY—Con.	Bark	Inside	9							1				1					
		Outside	3																
	Clarkburg Gas Coal Co.	Inside	14																
		Outside	2																
	Marion Gas Coal Co.	Inside	24									1		22			2		1
		Outside	5											2					
	Daniel Coal Co.	Inside	10																
		Outside	2																
	Daniel Coal Co.	Inside	14																
		Outside	3																
	Hygrade Coal Co.	Inside	3											2					
		Outside	3																
	Gillbert	Inside	4											10					
	Galline	Inside	2			5		6						12			6		
LEWIS COUNTY	The Monongah Fuel Co.	Inside	3			1				2		3		10					
		Outside	5																
	Byron Coal Co.	Inside	2																
		Outside	5																
	Totals		2,116	199		7	15			34		248	10	1,244	25	127	31		31
	Kroger Gas Coal Co.	Inside	12	10								10		20					
		Outside	10																
	Totals		22	10								10		20					
	Red Rock No. 1	Inside	8	4		1				2		5		14					1
UPSHUR COUNTY	Newcomer	Inside	17											3					
		Outside	1																
	Buckhamton River Coal & Coke Co.	Inside	23																
		Outside						10											
	Totals		56	4		1	10			2		5		27		2		4	10

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Gervian	Guinea Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	(Grand Total
HARRISON COUNTY—Con.																		
Barnard Coal Co.	Bark	Inside	2												13			16
		Outside														3		16
Clarksburg Gas Coal Co.	McWhorter	Inside													14	2		
		Outside													54	6		62
Marion Gas Coal Co.	Bingamon	Inside	1												10	2		12
		Outside	1												14	3		17
Daniel Coal Co.	Goeke No. 1	Inside													19	3		22
		Outside													14	29		44
Daniel Coal Co.	Goeke No. 2	Inside	12												30	4		33
		Outside														5		35
Hygrade Coal Co.	Page	Inside													2			
		Outside																
Swiger Coal Co.	Gilbert	Inside																
		Outside																
The Monongah Fuel Co.	Gallihue	Inside																
		Outside																
Byron Coal Co.	Althea	Inside	2															
		Outside																
Totals.			415	19	3	26	1				1			2	3,910	852		4,762
LEWIS COUNTY																		
Kroger Gas Coal Co.	Polar	Inside													52	10		62
		Outside																
Totals.															52	10		62
UPSHUR COUNTY																		
Red Rock Fuel Co.	Red Rock No. 1	Inside													50			57
		Outside													20			21
Newcomer Coal Co.	Newcomer	Inside													23	1		24
		Outside																
Buckhannon River Coal & Coke Co.	Florence	Inside														20		20
		Outside																
Totals.															93	28		121

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
BARBOUR COUNTY	Leulla Coal & Coke Co.	Inside.	9																
		Outside.	1														14	2	
	Meriden Coal Mining Co.	Inside.	30														2		
		Outside.	8																
	Tygart's River Coal Co.	Inside.	27														5		
		Outside.										49			26		51	7	
	The Consolidation Coal Co.	Inside.	20									2			2		6		
		Outside.	35																
	Laurel Creek Coal Co.	Inside.	14																
		Outside.																	
	The Century Coal Co. of W. Va.	Inside.	48									30			34		105		
		Outside.	19												1				
	Davis Coal & Coke Co.	Inside.	47																
		Outside.	41																
	Grafton Fuel Co.	Inside.	14												10		5		
		Outside.													2				
	Gage Coal & Coke Co.	Inside.	28																
		Outside.	4												5				
		Coke Yard.																	
	Davis Colliery Co.	Inside.	35																
		Outside.	5																
	Midland Coal & Coke Co.	Inside.	7																
		Outside.	5																
	Luella Coal & Coke Co.	Inside.	34																
		Outside.	2														3	4	
	Humphreys Coal Co.	Inside.	17												2				
		Outside.	4																
		Outside.	25												30				
	Davis Coal & Coke Co.	Inside.	7																
		Outside.																	
Totals			486								1	81		121	32	89	128		

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Serbian	Guinea Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
BARBOUR COUNTY																		
Luella Coal & Coke Co.	Adam	Inside													9	1		10
Meriden Coal Mining Co.	Meriden	Outside													55	11		66
Tygart's River Coal Co.	Arden	Outside	1												27	5		32
The Consolidation Coal Co.	Consolidation No. 37	Outside													153	46		199
Laurel Creek Coal Co.	Laurel Creek	Inside	1												14	2		16
The Century Coal Co. of W. Va.	Century Nos. 1 & 2	Outside													249	20		269
Davis Coal & Coke Co.	Dartmoor No. 4	Outside													47	41		88
Grafton Fuel Co.	Lillian Nos 1 & 2	Inside	3												28	5		33
Gage Coal & Coke Co.	Sara	Outside													30	4		34
		Outside															5	39
		Coke Yard													35	5		40
Davis Colliery Co.	Junior No. 4	Inside													7			7
Midland Coal & Coke Co.	Midland	Outside													34	5		39
Luella Coal & Coke Co.	Luella	Inside													26	2		28
Humphreys Coal Co.	Humphreys	Outside													65	4		69
Davis Coal & Coke Co.	Weaver No. 3	Outside													72	7		79
		Outside																
Totals			5											2	779	161	5	945

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE Ovens, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Roumanian	Russian
PRESTON COUNTY—Con.	Kingwood Coal Co.	Inside	43													12			
	Hite Coal Co.	Outside	20													8			
	Bretz No. 2.	Inside	2																
	Elkins Coal & Coke Co.	Outside	38									18		10		38			
		Outside	15													24			
		Coke Yard	9																
	Elkins Coal & Coke Co.	Inside																	
	Kingwood No. 4.	Outside																	
	Elkins Coal & Coke Co.	Inside	29											10		25			
	Masontown No. 6.	Outside	6													6			
	Elkins Coal & Coke Co.	Inside	35	9						4			3	32		1	9		
	Preston County Coke Co.	Outside	11	1									3	4			3		
		Coke Yard	3	18															
Borgman Coal Co.	Borgman No. 1.	Inside	32																
		Outside	5																
	Hiorra Coke Co.	Inside	51													10			
		Outside	7																
	Irona Coal Co.	Inside	38											3					
Totals		Outside	5																
			746	38						4	1	20	6	171	1	137	26	1	
TAYLOR COUNTY	Grafton Coal & Coke Co.	Inside	22										3	8	2				
		Outside	10																
	Flemington No. 4	Inside	63	5								2	2	5					6
		Outside	12																
	T. B. Davis.	Inside	19										1	8	2		2		
		Outside	9																
	McGraw Coal Co.	Inside	25									3							
		Outside	19																
	Rosemont.	Inside	65	5															
		Outside	25													12	12		20

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
TAYLOR COUNTY—Con. Maryland Coal Co. of W. Va. Winona Coal & Coke Co.	Wendel Nos. 1-2-3-4-5.	Inside.	32										15	40					
	Winona.	Outside.	27																
		Inside.	4			1								1			6		
		Outside.	4																
		Coke Yard.	7																
	Cecil.	Inside.	20																
Sterling Coal Co., Ltd. Harrison Coal Co. Sunnyside Coal Co.		Outside.	4																
	Harrison.	Inside.	20																
		Outside.	3													12			
	Sunnyside.	Inside.	16	3						3				2					
		Outside.	5																
Totals.			411	13		1				2		20	6	74	4	24	22		26
GRANT COUNTY Davis Coal & Coke Co. Buffalo Creek Cumberland Coal Co.	Henry No. 22.	Inside.	7	13						1				5			3		13
		Outside.	16							2				2					
	Buffalo Creek.	Inside.	6													25			
		Outside.	3																
Totals.			32	13						3				7		25	3		13
MINERAL COUNTY Davis Coal & Coke Co. Davis Coal & Coke Co. Davis Coal & Coke Co. Davis Coal & Coke Co. Davis Coal & Coke Co.	Elk Garden No. 6.	Inside.	26																
		Outside.	2																
	Wabash No. 9.	Inside.	32																
		Outside.	6																
	Tyson No. 10.	Inside.	33																
		Outside.	8																
Davis Coal & Coke Co. Davis Coal & Coke Co.	Kittanning No. 14.	Inside.	44																
		Outside.	7																
	Ott No. 20.	Inside.	23											15	8		1		
		Outside.	8											3	9				

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scottish	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
RANDOLPH COUNTY— <i>Con.</i>																		
Davis Colliery Co.	Coalton No. 1.	Inside Outside Coke Yard	15												132	17	51	200
Davis Colliery Co.	Sivad No. 2.	Inside Outside													40	5		45
Davis Colliery Co.	Harding No. 3.	Inside Outside Coke Yard		5											38	14	18	70
Davis Colliery Co.	Sivad No. 5, (Coaling Station)	Inside Outside	1												10	1		11
Brady Coal Co.	Klondyke.	Inside Outside													50	3		53
West Virginia Pulp & Paper Co.	Hopkins No. 1.	Inside Outside													17	2		19
J. B. Jenkins Coal & Coke Co.	Jenkins Nos. 1 & 2.	Inside Outside													40	3		43
W. H. Green.	Leroy.	Inside Outside													10	4		14
Rich Mountain Coal Co.	Hartridge No. 1.	Inside Outside	1												10	2		12
Rich Mountain Coal Co.	Beech Run.	Inside Outside													22	3		25
Totals.			17	5											603	79	69	751
TUCKER COUNTY																		
Cumberland Coal Co.	Douglas No. 1.	Inside Outside Coke Yard													157	51	8	216
Cumberland Coal Co.	Douglas No. 2.	Inside Outside													70	14		90
Cumberland Coal Co.	Douglas No. 5.	Inside Outside													56	4		60

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Roumanian	Russian
FAYETTE COUNTY—Con.																			
W. R. Johnson Coal Co.	Oakland Nos. 1-2	Inside	73					3						3		19			
Boomer Coal & Coke Co.	Boomer No. 1	Outside	7													3			
		Inside	125											80		25			
Boomer Coal & Coke Co.	Boomer No. 2 North & South	Outside	15																
		Inside	107										4	297		65	11		
Boomer Coal & Coke Co.	Boomer No. 3	Outside	37											7		14			
		Inside	51											66		23	3		
Boomer Coal & Coke Co.	Boomer No. 4	Outside	8											3		7			
		Inside	69											21		1			
Paint Creek Collieries Co.	Hickory Camp	Outside	22									15		3		1			
		Inside	25									1		5		2			
W. R. Johnson Coal Co.	Crescent Nos. 5-6	Outside	2											4		4			
Meeva Colliery Co.	Meeva No. 2 Gas	Inside	1													1			
		Outside	16													10			
Meeva Colliery Co.	Meeva Splint	Inside	25		1							1				22			
		Outside	5													3			
Meeva Colliery Co.		Inside	12		1							2				21			
		Outside	8													5			
Meeva Colliery Co.	Diamond Nos. 4-5	Inside	34											3		30			
Great Kanawha Colliery Co.	Eureka No. 14	Outside	12													2			
		Inside	31					15						2		13			
The Great Kanawha Colliery Co.	Great Kanawha	Outside														8			
St. Clair Colliery Co.	St. Clair	Inside	18													15			
		Outside	7													6			
M. B. Coal & Coke Co.	Kimberly No. 3	Inside	45																
		Outside	3																
M. B. Coal & Coke Co.	Columbia No. 5	Inside	50																
		Outside	6																
M. B. Coal & Coke Co.	Elk Ridge No. 1	Inside	28																
		Outside	4																
M. B. Coal & Coke Co.	Elk Ridge No. 2	Inside	63																
		Outside	6																
M. B. Coal & Coke Co.		Inside	50												10	4			
		Outside	5												5	2			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total (Outside Employees (Except Coke Yard)	Total Coke Pumps	Grand Total
FAYETTE COUNTY—Con.																		
W. R. Johnson Coal Co.	Oakland Nos. 1-2	Inside													80	10		90
Boomer Coal & Coke Co.	Boomer No. 1	Outside													230	15		245
Boomer Coal & Coke Co.	Boomer No. 2 North & South	Inside	5												492	58		550
Boomer Coal & Coke Co.	Boomer No. 3	Outside													147	18		165
Boomer Coal & Coke Co.	Boomer No. 4	Inside													136	27		163
Paint Creek Collieries Co.	Hickory Cam	Outside													34	8		42
W. R. Johnson Coal Co.	Crescent Nos. 5-6	Inside													26	4		30
Mecca Colliery Co.	Mecca No. 2 Gas	Outside		1											50	8		58
Mecca Colliery Co.	Mecca Splint	Inside													36	13		49
Mecca Colliery Co.	Diamond Nos. 4-5	Outside													67	14		81
Great Kanawha Colliery Co.	Eureka No. 14	Inside													49	13		62
The Great Kanawha Colliery Co.	Great Kanawha	Outside													26	7		33
St. Clair Colliery Co.	St. Clair	Inside													66	9		75
M. B. Coal & Coke Co.	Kimberly No. 3	Outside													50	6		56
M. B. Coal & Coke Co.	Columbia No. 5	Inside													25	4		32
M. B. Coal & Coke Co.	Elk Ridge No. 1	Outside													63	6		69
M. B. Coal & Coke Co.	Elk Ridge No. 2	Inside													64	10		74

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
FAYETTE COUNTY— <i>Con.</i>																		
The Mt. Carbon Coal Co.	Vulcan.	Inside.....	46												50	2		
		Outside.....	10												6			
		Coke Yard.....	5												16			
Loup Creek Colliery Co.	Loup Creek No. 2 Gas.	Inside.....	138	14									64		41	2		
Herbert Collieries Co.	Herberton	Outside.....	30										1		7			
		Inside.....	36										3		39			
Fort Defiance Coal & Coke Co.	Ft. Defiance	Outside.....	12												2			
		Inside.....	50	2									2		23			
Lynchburg Colliery Co.	Lynchburg No. 2 Gas and No. 5 Slight Split	Outside.....	110												4			
		Inside.....	26												10			
Gamoca Coal Co.		Inside.....	26										40		29			
		Outside.....	4										10					
Deitz Colliery Co.	Deitz	Inside.....	70												5			
		Outside.....	20															
Christian Colliery Co.	Christian	Inside.....	24				1		1					6	10	8		4
		Outside.....	15												10			
Milborn Coal & Coke Co.	Milborn No. 1	Inside.....	63										15		24			
		Outside.....	14												1			
Solvay Collieries Co.	No. 1, A. & B.	Inside.....	60	9						2	14		20		31	14		
		Outside.....	35							6			10		3			
Mill Creek Colliery Co.	Mill Creek	Inside.....	60										14					
		Outside.....	15															
The Gauley Mountain Coal Co.	Nova Scotia	Inside.....	150															
		Outside.....	60										2		48			
		Coke Yard.....	10															
Signal Knob Coal Co.	Signal Knob	Inside.....	50												10			
		Outside.....	5															
Michigan Coal Co.	Michigan	Inside.....	38													2		
		Outside.....	10															
Manufacturers & Consumers Coal Co.	Newlyn	Inside.....	60															
		Outside.....	6															
G. M. Blume Estate	Fayette	Inside.....	40												10			
		Outside.....	5												4			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

[illegible]

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
FAYETTE COUNTY—Con.	McKell Coal & Coke Co.	Inside	109			2		8						50		76	6		
		Outside	10													14			
	Harvey	Inside	56					1								44	3		5
		Outside	14													13			
		Coke Yard	2			5		5		25		10		5		7	1		
	Prudence, Jones & Layman	Inside	125											25		30	2		3
		Outside	50																
	White Oak Fuel Co.	Inside	45					4								20	30		
		Outside	17													3	2		
	White Oak Fuel Co.	Inside	21					9								23	36	1	
	Scarbro	Inside	22													8	1		
		Outside	30													3			
	Whipple	Inside	18																
		Outside	7					1								38	40		
	White Oak Fuel Co.	Inside	14																
		Outside	41					4								9	42		
	White Oak Fuel Co.	Inside	18													2	4		
		Outside	34	3								18		3		56	5		
	Collins	Inside	11													8			
		Outside	30													1	12		
	Parral	Inside	22					20					4			3			
		Outside	18	1						5						2			
	Stuart	Inside	19					6								30	6		
		Outside	83													61	4		
	Dunloop Coal & Coke Co.	Inside	19						4							2			
		Outside	19													4			
		Inside	31					1								67			
	MacDonald	Outside	9																
		Coke Yard	1													16			
	Sugar Creek Coal & Coke Co.	Inside	26													64			
		Outside	9													11			
		Inside	50							10						30	10		
	Turkey Knob	Outside	10													5			
		Coke Yard														6			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
			Inside Outside	40 14	8 1	8 1	1							20	10,132	1,710	456	12,298
FAYETTE COUNTY—Cont.																		
The Mount Hope Coal Co.	Baby	Inside Outside													34	4		38
Totals																		
KANAWHA COUNTY																		
Queen Shoals Coal Co.	Queen Shoals	Outside													14	1		15
The Morris Fork Coal Co.	Turner 1-2	Inside Outside													53	8		61
Clay Coal Co.	Bradley White Ash	Inside Outside													35	5		40
Villa Coal Mining Co.	Mill Creek	Inside Outside													20	10		30
Blue Creek Coal & Land Co.	Wills Hollow Nos. 1-2	Inside Outside					3 1								40	5		45
Blue Creek Coal & Land Co.	Blakely No. 3	Inside Outside													68	10		78
Standard Kanawha Coal Mining Co.	No. 1	Inside Outside													76	14		90
Standard Kanawha Coal & Mining Co.	No. 2	Inside Outside													24	14		30
Williams Coal Co.	Williams	Inside Outside			1										21	5		26
Campbell's Creek Coal Co.	No. 1	Inside Outside		2											213	23		236
Campbells Creek Coal Co.	No. 3	Inside Outside													125	9		134
Virginia Coal Co.	Virginia	Inside Outside		2											48	12		60
Quincy Coal Co.	Quincy No. 2	Inside Outside													55	10		65
Sunday Creek Co.	No. 101	Inside Outside													102	17		119

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE Ovens, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	WHERE EMPLOYED											Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total (Coke Employees)	Grand Total	
			Slavish	Scottish	Swedish	Syrian	Welsh	Serbian	Guinea Negro	Croatian	Hawathi	Spanish	Bulgarian					Unknown
KANAWHA COUNTY—Contd	Dry Branch Coal Co.	Coalburg & Mt. Bryson													70	12		82
	Dry Branch Coal Co.	Belmont No. 3													14	1		15
	Coalburg Colliery Co.	Ronda													97	18		115
		Oakley													62	15		77
	Wyatt Coal Co.	Berlin		6										6	80	20		100
	Wyatt Coal Co.	Horton No. 1		6										6	90	18		108
	Wyatt Coal Co.	Horton No. 2		4										4	66	7		73
	Lewis Coal & Coke Co.	Peerless & Lewiston													87	10		97
	The Persinger Coal Co.	Wilton													22	6		28
	Southern Collieries Co.	La Mont													35	10		45
		Stephenson No. 5													65	6		71
	Holley & Stephenson Coal & Coke Co.	Stephenson No. 2													83	6		89
		Wake Forest													80	10		90
	Carbon Coal Co.	North Carbon													18	2		20
	Carbon Coal Co.	South Carbon													42	7		49
	Carbon Coal Co.	Carbon Splint													60	5		65
	Carbon Coal Co.	Low Sulphur													10	1		11

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	WHERE EMPLOYED														Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
			Slavish	Scotch	Swedish	Syrian	Welsh	Serbian	Guinea Negro	Croatian	Harwatt	Spanish	Bulgarian	Unknown						
KANAWHA COUNTY—Con.	Republic No. 1	Inside													30	4		34		
	Republic Coal Co.	Outside													15	2		17		
	Republic Coal Co.	Outside													36	4		40		
	Republic Coal Co.	Inside													17	4		21		
	Republic Coal Co.	Outside													54	15		69		
	West Virginia Colliery Co.	Inside													24	2		26		
	West Virginia Colliery Co.	Outside													82	11		93		
	West Virginia Colliery Co.	Outside													53	6		59		
	West Virginia Colliery Co.	Inside													52	11		63		
	Cabin Creek Consolidated Coal Co.	Outside													40	12		52		
	Cabin Creek Consolidated Coal Co.	Inside													21	2		23		
	Cabin Creek Consolidated Coal Co.	Outside													26	10		36		
	Cabin Creek Consolidated Coal Co.	Inside													42	4		46		
	Cabin Creek Consolidated Coal Co.	Outside													35	5		40		
	Cabin Creek Consolidated Coal Co.	Inside													40	4		44		
	Cabin Creek Consolidated Coal Co.	Outside													31	6		37		
Cabin Creek Consolidated Coal Co.	Inside													28	11		39			
Cabin Creek Consolidated Coal Co.	Outside													11						

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
KANAWHA COUNTY— <i>Con.</i>																			
Cabin Creek Consolidated Coal Co.	Slamrock	Inside	29											10	1				
		Outside	5											1					
Cabin Creek Consolidated Coal Co.	Thistle	Inside	22								1			14			3	5	
		Outside	3							2							1		
Cabin Creek Consolidated Coal Co.	Raceoon Gas	Inside	27								2			5			6		
		Outside	3														1		
Cabin Creek Consolidated Coal Co.	Raceoon Splint, East and West	Inside	66											2					
		Outside	10																
Cabin Creek Consolidated Coal Co.	Rose	Inside	35									3		3			5	9	2
		Outside	6																
Cabin Creek Consolidated Coal Co.	Kayford Nos. 1-2	Inside	55											20			5	10	
		Outside	32							2				3			1		
Cabin Creek Consolidated Coal Co.	Holly	Inside	31									3							
		Outside	10																
Cabin Creek Consolidated Coal Co.	Quarrier	Inside	41																
		Outside	11									4							
Cabin Creek Consolidated Coal Co.	United Gas	Inside	29											10			3		7
		Outside	12											6					
Cabin Creek Consolidated Coal Co.	United Splint	Inside	19											19					
		Outside	2											6					
Cabin Creek Consolidated Coal Co.	Belleclare	Inside	19											1			7	2	
		Outside	11														1		
Cabin Creek Consolidated Coal Co.	Ruby	Inside	24											1			1	5	1
		Outside	5																
Paint Creek Collieries Co.	Reynolds	Inside	87																
		Outside	10																
Paint Creek Collieries Co.	Knickerbocker	Inside	78																
		Outside	6																
Paint Creek Collieries Co.	Seranton	Inside	50																
		Outside	9																
Paint Creek Collieries Co.	Paint Creek	Inside	84							10							16		
		Outside	16														4		
Paint Creek Collieries Co.	Wacamah	Inside	33																
		Outside	13											42					

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Harwatt	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (except Coke Yard)	Total Coke Employees	Grand Total
KANAWHA COUNTY— <i>Con.</i>	Paint Creek Collieries Co.	Inside.....													72	13		85
	Paint Creek Collieries Co.	Outside.....													36	5		41
	Paint Creek Collieries Co.	Inside.....													16			16
	Paint Creek Collieries Co.	Outside.....													61	8		69
	Paint Creek Collieries Co.	Inside.....													56	14		70
	Paint Creek Collieries Co.	Outside.....													53	19		72
	Coalburg Kanawha Coal Co.	Inside.....													31	10		41
	Coalburg Kanawha Coal Co.	Outside.....													32	5		37
	Southwestern Splint Fuel Co.	Inside.....													32	16		48
	Belmont Coal Co.	Outside.....													33	19		52
	Crown Kanawha Coal Co.	Inside.....													125	10		135
	Standard Splint & Gas Coal Co.	Outside.....													80	10		90
	Imperial Colliery Co.	Inside.....													66	10		76
	Imperial Colliery Co.	Outside.....													106	12		118
	Chesapeake Mining Co.	Inside.....													91	21		112
	Chesapeake Mining Co.	Outside.....													63	12		75
	Montgomery Coal Co.	Inside.....													56	20		76
	Morris Creek Colliery Co.	Outside.....													6	6		12

INTERNATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polsih	Romanian
KANAWHA COUNTY—Con. East Bank Mining Co.	East Bank	Inside Outside	14 9	1	1	6	1	36	5	154			486	7	853	23	20
Totals	Ottawa	Inside Outside	41 15												7		
BOONE COUNTY The Coal River Co.	Ramage Nos. 1-2	Inside Outside	30 6														
Spruce River Coal Co.	Block	Inside Outside	35 10												5		
Poytonia Block Coal Co.	Cannel No. 2	Inside Outside	9 3														
Peytona Block Coal Co.	Hickory Ash	Inside Outside	36 8														
Hickory Ash Coal Co.	Anchor	Inside Outside	40 8						10						2		
Anchor Coal Co.	Webb	Inside Outside	27 28						4	2					35		
Webbs Coal Mining Co.	Blue Star	Inside Outside	12 8						16				7	2	7	1	
Song Creek Coal Co.	Totals		316						31	2	9		63	1			
NICHOLAS COUNTY Saxman Coal & Coke Co.	Saxman Nos. 1-2	Inside Outside Coke Yard	22 6 2							10			8			13	2
Saxman Coal Co.	Saxman No. 3	Inside Outside	4 8							1			3		2	4	
Pardoe & Curtin Lumber Co.	Pantler Creek	Inside Outside	8 2										2				

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Ma-y-sh	Scot-sh	Sweth-sh	Sy-ran	Welsh	Ser-vian	Guinea Negro	Irish-an	Har-walt	Span-ish	Pul-gar-tan	Un-known	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
KANAWHA COUNTY—Con.																		
East Bank Mining Co.	East Bank	Inside Outside													14	2		16
Totals			11	23	2	4	4							16	5,651	1,022		6,703
BOONE COUNTY				2														
The Coal River Co.	Ottawa	Inside Outside													51	15		66
Spruce River Coal Co.	Ramage Nos. 1-2	Inside Outside													30	6		36
Peytona Block Coal Co.	Block	Inside Outside													40	10		50
Peytona Block Coal Co.	Cannel No. 2	Inside Outside													9	3		12
Hickory Ash Coal Co.	Hickory Ash	Inside Outside													36	8		44
Anchor Coal Co.	Anchor	Inside Outside													52	9		61
Webb Coal Mining Co.	Webb	Inside Outside													71	30		101
Seng Creek Coal Co.	Blue Star	Inside Outside													43	11		54
Totals				2											332	92		424
NICHOLAS COUNTY																		
Saxman Coal & Coke Co.	Saxman Nos. 1-2	Inside Outside Coke Yard	10												65	10	3	78
Saxman Coal Co.	Saxman No. 3	Inside Outside													14	2		16
Pardoe & Curtin Lumber Co.	Panther Creek	Inside Outside													8	2		10

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED																
		American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
RALEIGH COUNTY— <i>Con.</i>																		
The New River Co.	Price Hill	39							1		2	4			6	9		
Slab Fork Coal Co.	Slab Fork No. 5	156					4			35		30						
E. E. White Coal Co.	Nos. 1-2-3	71	3					5		2	5	40			45			
Pemberton Coal & Coke Co.	Pemberton & Affinity	19							1	3					5			
Stonewall Coal & Coke Co.	Stonewall Nos. 3-4	40													20			
Stonewall Coal & Coke Co.	Terry Nos. 1-2	5													1			
Wright Coal & Coke Co.	Wright No. 1	40										10						
Wright Coal & Coke Co.	Wright No. 2	10					1								20			
E. E. White Coal Co.	No. 5	5													8			
Gulf Smokeless Coal Co.	Tams Nos. 1-2-3	30							4		5	16			54			
MacAlpin Coal Co.	MacAlpin	20	20						4		20	14			90	22		3
Bailey Wood Coal Co.	Bailey Wood No. 1	30									20	5			5			
Pemberton Coal & Coke Co.	Big Stick	110							10		20	10			40			
The Gulf Coal Co.	Gulf & Beaver	43							5		6	17			4			
Lynwin Coal Co.	Lynwin	16													41			
Winding Gulf Colliery Co.	Winding Gulf Nos. 1-2	12													39	19		
		22													39			
		25							3		5	5			25	2		
		68	2												5			
		12													5			
Totals		2,393	50				37		42	130	206	34	516	68	997	198		41

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Hawatt	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total (Coke Employees)	Grand Total
RALEIGH COUNTY— <i>Con.</i> The New River Co. Slab Fork Coal Co. E. E. White Coal Co. Pemberton Coal & Coke Co. Stonewall Coal & Coke Co. Stonewall Coal & Coke Co. Wright Coal & Coke Co. Wright Coal & Coke Co. E. E. White Coal Co. Gulf Smokeless Coal Co. MacAlpin Coal Co. Bailey Wood Coal Co. Pemberton Coal & Coke Co. The Gulf Coal Co. Lynwin Coal Co. Winding Gulf Colliery Co.	Prior Hill	Inside	10												71	12		83
	Slab Fork No. 5	Outside													225	15		240
	Nos. 1-2-3	Outside													174	35		209
	Pemberton & Affinity	Outside													43	11		54
	Stonewall Nos. 3-4	Outside													40	5		45
	Terry Nos. 1-2	Inside													50	10		60
	Wright No. 1	Outside												10	47	5	52	
	Wright No. 2	Outside													57	5		62
	No. 5	Outside													109	38		147
	Tams Nos. 1-2-3	Inside	70												272	40		312
	MacAlpin	Outside	5												214	20		234
	Bailey Wood No. 1	Outside		19											109	16		125
	Big Stick	Inside	1												58	6		64
	Gulf & Beaver	Outside													69	9		78
	Lynwin	Inside													80	25		105
	Winding Gulf Nos. 1-2	Outside	5												115	17		132
	Totals		189	42									25	10	4,362	619		4,981

THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE NATIONALITIES OF PERSONS EMPLOYED AT T
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Rumanian	Russian
MERCER COUNTY																			
Coaldale Coal & Coke Co.	Coaldale	Inside	68									12				56			4
		Outside	9													6			
		Coke Yard	11													5			
Mill Creek Coal & Coke Co.	East, West, West Fork & Tug River	Inside	71											13		110			
		Outside	13													5			
		Coke Yard	15									35		4		19			
Buckeye Coal & Coke Co.	Buckeye North & South	Inside	85						5					4		56			
		Outside	9											2		9			
		Coke Yard	2						11			4		4		23			
Booth Bowen Coal & Coke Co.	Booth Bowen	Inside	47											3		7			
		Outside	15											71		6			
		Coke Yard																	
Pocahontas Cons. Collieries Co.	Caswell, Elkhorn & Hemlock	Inside	71													73			
		Outside	15													15			
Pocahontas Cons. Collieries Co.	Sagmore Nos. 1-2	Inside	73									73				74			
		Outside	17													18			
Pocahontas Cons. Collieries Co.	West	Inside	5									10							
		Outside														5			
Louisville Coal & Coke Co.	Louisville-Goodwill	Inside	55					1				2				53	1		
		Outside	12													13			
		Coke Yard	1													14			
Godfrey Coal Co.	Godfrey or Cephus	Inside	17																
		Outside	5																
Crystal Coal & Coke Co.	Crystal Nos. 1-2	Inside	25										30	20		75			
		Outside	10													20			
		Coke Yard	10									15				10			
Crystal Coal & Coke Co.	Crystal Nos. 1-3-4	Inside	10													15			
		Outside	7																
American Coal Co. of Allegheny Co.	Crane Creek	Inside	90					10	2			35	3	25		24			10
		Outside	10													5			
		Coke Yard	5													10			
		Inside	90					1	9			20		12		20			10
American Coal Co. of Allegheny Co.	Pinnacle	Outside	30									2		10		10			
		Coke Yard														21			

NAME OF COMPANY.	NAME OF MINT.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Crothian	Harwatt	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
MERCER COUNTY																		
Coaldale Coal & Coke Co.	Coaldale	Inside													140	15	15	171
		Outside																
		Coke Yard													14	1	38	250
Mill Creek Coal & Coke Co.	East, West, West Fork & Tug River	Inside																
		Outside																
		Coke Yard													185	15	15	215
Buckeye Coal & Coke Co.	Buckeye, North & South	Inside																
		Outside																
		Coke Yard													110	25	15	150
Booth Bowen Coal & Coke Co.	Booth Bowen	Inside	15															
		Outside																
		Coke Yard													215	30		245
Pocahontas Cons. Collieries Co.	Caswell, Elkhorn & Hemlock	Inside																
		Outside													220	35		255
		Coke Yard																
Pocahontas Cons. Collieries Co.	Sagmore Nos. 1-2	Inside													15	5		20
		Outside																
		Coke Yard													122	25	15	162
Pocahontas Cons. Collieries Co.	West	Inside	1															
		Outside																
		Coke Yard													17	5		22
Godfrey Coal Co.	Godfrey or Cephus	Inside																
		Outside													150	30	20	200
Crystal Coal & Coke Co.	Crystal Nos. 1-2	Inside																
		Outside													40	7		47
		Coke Yard													297	25	35	267
Crystal Coal & Coke Co.	Crystal Nos. 1-3-4	Inside	8															
		Outside																
		Coke Yard													160	52	21	233
American Coal Co. of Allegheny Co.	Crane Creek	Inside																
		Outside																
		Coke Yard																
American Coal Co. of Allegheny Co.	Pinnacle	Inside																
		Outside																
		Coke Yard																

AMERICAN COAL CO. OF ALLEGHENY CO. CRANE CREEK Pinnacle

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
MERCER COUNTY.— <i>Con.</i> American Coal Co. of Allegheny Co.	Piedmont	Inside	30											35	21			
		Outside	6												4			
	Thomas No. 1	Inside	6									2	20		104			
		Outside	2												17			
		Coke Yard	1												39			
	Thomas No. 2	Inside	14												26			
		Outside	1												5			
		Inside	40						1				3		24	2		
	Pawama Coal & Coke Co.	Outside	10												1			
		Inside	26								1		24		66	5		
	Weyanoke Coal & Coke Co.	Outside	24												7	1		
		Inside	35										5		6			
	Smokeless Coal & Coke Co.	Outside	5															
		Inside	50								3		30		23			
McDOWELL COUNTY Allema Coal & Coke Co.	Hiawatha	Outside	15										5		5			
		Inside	33						1			6	3		39	4		
	Spring	Outside	17												1			
		Inside	16								20				25			
	Wenonah 1-2-3	Outside	2											8				
	Totals		1,265				14		29		238	35	328		1,214	13		24
McDOWELL COUNTY Allema Coal & Coke Co.	Piney & Northfork	Inside	23				1		1		35		8		100	3		
		Outside	11								2		5		16			
		Coke Yard													16			
	Elk Ridge Nos. 1-2	Inside	6							10			34		98			
		Outside	8							2			5		10			
		Coke Yard	3												32			
	Gilliam	Inside	25								19				106			
		Outside	49												18			
		Coke Yard	2												15			
	Indian Ridge Coal & Coke Co.	Inside	20								29			4	66			
		Outside	3												9			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Rumanian	Russian
McDOWELL COUNTY— <i>Con.</i> Roanoke Coal & Coke Co.	Roanoke	Inside	33									14		18		39			1
		Outside	21													4			
Arlington Coal & Coke Co.	Arlington	Coke Yard										4		3		9			
		Inside	61											8		19			
Greenbrier Coal & Coke Co.	Greenbrier	Outside	15													11			
		Coke Yard	2									3		3		29			
McDowell Coal & Coke Co.	McDowell	Inside	61											12		33			
		Outside	10											7		5			
Ashland Coal & Coke Co.	Ashland & Monitor	Coke Yard	2											1		21			
		Inside	55									10		38		62	2		
Pocahontas Cons. Collieries Co.	Pocahontas	Outside	14											5		16			
		Coke Yard	50											10		15			
Pocahontas Cons. Collieries Co.	Pocahontas	Inside	100							1		35		30		30	1		
		Outside	1											10					
Pocahontas Cons. Collieries Co.	Pocahontas	Coke Yard	1									70				20			
		Inside	18													70			
Pocahontas Cons. Collieries Co.	Pocahontas	Outside	81									81				17			
		Inside	20													81			
Pocahontas Cons. Collieries Co.	Pocahontas	Coke Yard	28											30		20			
		Outside	37													36			
Pocahontas Cons. Collieries Co.	Pocahontas	Inside	59									72				37			
		Outside	15													15			
Pocahontas Cons. Collieries Co.	Pocahontas	Outside	20									116				58			
		Inside	20													20			
Pocahontas Cons. Collieries Co.	Pocahontas	Coke Yard	25													50			
		Inside	81									40		81		41			
Pocahontas Cons. Collieries Co.	Pocahontas	Outside	25													25			
		Coke Yard	15											30		30			
Pocahontas Cons. Collieries Co.	Pocahontas	Inside	86											87					
		Outside	12																
Pocahontas Cons. Collieries Co.	Pocahontas	Coke Yard	73									73				13			
		Inside	20													72			
Zenith Coal & Coke Co.	Zenith	Outside	40					3						35		20			
		Inside	20									5				35	1		1
		Outside	20													10			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
McDOWELL COUNTY— <i>Con.</i> Elkhorn Coal & Coke Co.	Elkhorn	Inside	61									34				71			
		Outside	13											3		13			
Turkey Gap Coal & Coke Co.	Turkey Gap	Coke Yard	2									1		1		14			
		Inside	6									6				74			112
Crozer Coal & Coke Co.	Nos. 1-2	Outside	30																
		Coke Yard	1											1		69			
Houston Coal & Coke Co.	Houston Nos. 1-2	Inside	25									7		12		80	10		15
		Outside	77									50		20		30			
Upland Coal & Coke Co.	Upland	Coke Yard	10									5		10		150			
		Inside	20									20		10		100			
Powhatan Coal & Coke Co.	Powhatan	Outside	20											20		10			
		Coke Yard	35								20	56		49		26			
Lynchburg Coal & Coke Co.	Lynchburg	Inside	2											10		13			
		Coke Yard	40								20	15				45			
Keystone Coal & Coke Co.	Keystone Nos. 1-2	Inside	6											1		17			
		Coke Yard	1											90		25			
Pulaski Iron Co.	Pulaski Nos. 1-2-3	Inside	150													100			
		Outside	55											5		5			
Eureka Coal & Coke Co.	Eureka	Coke Yard	5									38		32		30			
		Inside	65											51		134			
Shawnee Coal & Coke Co.	Shawnee	Outside	20									12		43		18			7
		Coke Yard	3									20		4		90			30
		Inside	7													10			
		Coke Yard	1											2		21	1		
		Outside	100											25		5			
		Coke Yard	3											10		5			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scottish	Swedish	Syrian	Welsh	Servian	(Italian Negro	Croatian	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total (Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
McDOWELL COUNTY—Con. Elkhorn Coal & Coke Co.	Elkhorn	Inside Outside Coke Yard													166	29	18	213
Turkey Gap Coal & Coke Co.	Turkey Gap	Inside Outside Coke Yard													198	30	71	299
Crozer Coal & Coke Co.	Nos. 1-2	Inside Outside Coke Yard	14												244	85	90	419
Houston Coal & Coke Co.	Houston Nos. 1-2	Inside Outside Coke Yard													250	50	115	415
Upland Coal & Coke Co.	Upland	Inside Outside Coke Yard													190	30	50	270
Powhatan Coal & Coke Co.	Powhatan	Inside Outside Coke Yard	25												214	35	50	299
Lynchburg Coal & Coke Co.	Lynchburg	Inside Outside Coke Yard													180	23	30	233
Keystone Coal & Coke Co.	Keystone Nos. 1-2	Inside Outside Coke Yard													300	65	35	400
Pulaski Iron Co.	Pulaski Nos. 1-2-3	Inside Outside Coke Yard	38												327	96	82	505
Eureka Coal & Coke Co.	Eureka	Inside Outside Coke Yard													180	17	25	222
Shawnee Coal & Coke Co.	Shawnee	Inside Outside Coke Yard													205	15	18	238

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Roumanian	Russian
McDOWELL COUNTY—Con. Empire Coal & Coke Co.	Empire.	Inside. Outside. Coke Yard	41 14					2				37		31		133	1	2	1
Bottom Creek Coal & Coke Co.	Bottom Creek No. 1	Inside. Outside. Coke Yard	17 24	4								18	1	14		78 55			23
Bottom Creek Coal & Coke Co.	Bottom Creek No. 2	Inside. Outside. Coke Yard	18 6									1		5		39 10			13
Peerless Coal & Coke Co.	Peerless.	Inside. Outside. Coke Yard	82 15									25	5	30		40			
Tidewater Coal & Coke Co.	Tidewater	Inside. Outside. Coke Yard	21 10					5				12	1	15		20		2	15
King Coal Co.	King	Inside. Outside. Coke Yard	13 10					6				10		25		13 115			5
Cirrus Coal & Coke Co.	No. 2	Inside. Outside. Coke Yard	15 12					1				53		4		54 13			
Virginia Fuel Co.	Virginia	Inside. Outside. Coke Yard	17 2							6		4				4 3			
Dixon-Poalontas Fuel Co.	North Side No. 1	Inside. Outside. Coke Yard	8 5					3				2		17		11 8			
Dixon-Poalontas Fuel Co.	South Side No. 2	Inside. Outside. Coke Yard	11 4									4					5		4
Middle States Coal & Coke Co.	Middle States	Inside. Outside. Coke Yard	34 35									2		79 12		15 10			
Jed Coal & Coke Co.	Jed	Inside. Outside. Coke Yard	20 6						1			25		10		8 6			
Black Wolf Coal & Coke Co.	Black Wolf	Inside. Outside. Coke Yard	20 18									20		8		20			
Page Coal & Coke Co.	Page Nos. 1-2-3	Inside. Outside. Coke Yard	72 40						3	6		25	3	21		93 33		38	
			1							19				6		55			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE

30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
McDOWELL COUNTY— <i>Con.</i> Central Pocahontas Coal Co.	Central No. 1	Inside	7										4						
		Outside	3																
	Central No. 2	Inside	19											1					
		Outside	3																
	West Va.-Pocahontas Coal Co.	Inside	40											37		69			
		Outside	15														1		
	United States Coal & Coke Co.	Inside	2																
	United States Coal & Coke Co.	Inside	66																
	United States Coal & Coke Co.	Outside	23										8			17			
	United States Coal & Coke Co.	Inside	49													59			
	United States Coal & Coke Co.	Outside	24										21			22			
	United States Coal & Coke Co.	Inside	31							7			2			56			
	United States Coal & Coke Co.	Outside	22										122			21			
	United States Coal & Coke Co.	Inside	30										3			10			
	United States Coal & Coke Co.	Outside	3													29			
	United States Coal & Coke Co.	Inside	18										151			53			
	United States Coal & Coke Co.	Outside	12							2			2			19			
	United States Coal & Coke Co.	Inside	32										69			74			
	United States Coal & Coke Co.	Outside	12										1			20			
	United States Coal & Coke Co.	Inside	11							16						37			
Pocahontas Cons. Collieries Co.	United States No. 8	Inside	3																
	United States No. 9	Outside	96							17	28	139		25		43			
	United States No. 10	Inside	67								5	13		4		9			
	United States No. 10	Outside	8									77		43		42			
	United States No. 11	Inside	44							1		4		6		12			
	United States No. 11	Outside	14							15		108				10			
	United States No. 12	Inside	48								5	6							
	United States No. 12	Outside	10									29		22		10			
	Pocahontas No. 6	Inside	19									6		15					
	Pocahontas No. 6	Outside	33									13		13					
	Pocahontas No. 6	Inside	50									33				31			
	Pocahontas No. 6	Outside	5													25			
Pocahontas Smokeless Coal Co.	Pocahontas Smokeless	Outside														10			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Serbian	Guinea Negro	Portian	Hawaii	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
McDOWELL COUNTY—Con.																		
Hemphill Colliery Co.	Hemphill	Inside													32	5		37
Welch Coal & Coke Co.	Welch	Outside													60	8		68
Oregon Coal Co.	Oregon	Outside													113	32		145
Standard Pocahontas Coal Co.	Standard	Outside													41	21		62
Pando Coal Co.	Pando Nos. 1-2	Inside	5	3											37	6		43
Superior Pocahontas Coal Co.	Blackstone No. 1	Outside													50	5		55
Superior Pocahontas Coal Co.	Davy Crockett No. 2	Inside													53	4		57
Superior Pocahontas Coal Co.	Helena No. 2	Outside													35	3		38
Superior Pocahontas Coal Co.	Cletus No. 4	Inside	4												21	3		24
J. B. B. Coal Co.	J. B. B. No. 1	Outside													91	6		97
J. B. B. Coal Co.	J. B. B. No. 2	Inside													79	7		86
J. B. B. Coal Co.	J. B. B. No. 3	Outside													75	12		87
J. B. B. Coal Co.	J. B. B. No. 4	Outside													104	10		114
Solvay Collieries Co.	Marytown	Inside													155	33		188
Solvay Collieries Co.	Big Sandy	Outside													112	29		141
Vaughn Coal & Coke Co.	Vaughn	Inside	1												43	10		53
Flanagan Coal Co.	Flanagan Nos. 1-2	Outside													31	5		36

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OFENS. FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
McDOWELL COUNTY—Con. Johns Branch Coal Co.	Johns Branch.	Inside	4													20			
	War Creek No. 1	Outside	4																
	War Creek Coal Co.	Inside	8													4			
	Excelsior Pocahontas Coal Co.	Outside	2																
	Excelsior	Inside	11									11		4		22			
	Pocahontas Domestic Coal Co.	Outside	6													4			
	Pocahontas Domestic Coal Co.	Inside	30										5			10			
	New River & Pocahontas Cons. Coal Co.	Outside	3																
	New River & Pocahontas Cons. Coal Co.	Inside	52											45		33	14	30	
	New River & Pocahontas Cons. Coal Co.	Outside	14											26		12		1	
	New River & Pocahontas Cons. Coal Co.	Coke Yard	28											28		93			
	New River & Pocahontas Cons. Coal Co.	Inside	14											31		8			
	New River & Pocahontas Cons. Coal Co.	Outside	30									4		40		50		20	
LOGAN COUNTY Coal River Coal & Coke Co.	War Creek No. 3	Coke Yard	12																
	War Creek No. 3	Inside	23											8					
	New River & Pocahontas Cons. Coal Co.	Outside	27									23		4					
	New River & Pocahontas Cons. Coal Co.	Inside	16											1		45			
	Lathrop Coal Co.	Outside	50									2				2			
	Lathrop Coal Co.	Inside	15													36			
	Mohawk Coal & Coke Co.	Outside																	
	Totals.		5,504	4	4			38		96	115	2,302	20	1,886	25	5,301	344	157	232
LOGAN COUNTY Coal River Coal & Coke Co.	Dolra	Inside	7	6				12						6		12			
	Dolra	Outside	5																
	Spruce Bend Coal Co.	Inside	12											11		9			
	Spruce Bend Coal Co.	Outside	16	1										1					
	Coal Valley Mining Co.	Inside	20									4	2	6				3	
	Coal Valley Mining Co.	Outside	10																
Miffin Coal Co.	Miffin No. 1	Inside	21									1	2		1	10			2
	Miffin No. 1	Outside													3	9			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	Croatian	Harwatt	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
McDOWELL COUNTY— <i>Con.</i>																		
Johns Branch Coal Co.	Johns Branch	Inside													24	4		28
War Creek Coal Co.	War Creek No. 1	Inside													12	2		14
Excelsior Pocahontas Coal Co.	Excelsior	Inside													31	7		58
Pocahontas Domestic Coal Co.	Scorpion	Inside	5												50	3		53
New River & Pocahontas Cons. Coal Co.	Berwind No. 1	Inside	20												196	13		249
New River & Pocahontas Cons. Coal Co.	Berwind No. 2	Coke Yard													56		40	
New River & Pocahontas Cons. Coal Co.	Berwind No. 3	Inside													138		8	202
New River & Pocahontas Cons. Coal Co.	Berwind No. 4	Inside	20												104	12		176
Lathrop Coal Co.	Lathrop	Inside													51	4		58
Mohawk Coal & Coke Co.	Mohawk	Inside													15	18		63
		Outside													86	15		101
Totals			345	10	10							3			16,127.58	2,476	1,280	16,514
LOGAN COUNTY																		
Coal River Coal & Coke Co.	Dobra	Inside													43	5		48
Spruce Bend Coal Co.	Sharpless	Inside													32	8		40
Coal Valley Mining Co.	Sylvia	Inside													35	10		45
Mifflin Coal Co.	Mifflin No. 1	Inside		2											44	12		56

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVENS, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scotch	Swedish	Syrian	Welsh	Servian	Guinea Negro	(Yolan	Harwall	Spanish	Bulgarian	Unknown	Total Inside Employees	Total Outside Employees (Except Coke Yard)	Total Coke Employees	Grand Total
LOGAN COUNTY— <i>Con.</i>																		
Black Hawk Colliery Co.	Black Hawk	Inside													12	3		15
Stone Branch Coal Co.	Stone Branch	Outside													61			69
Guyandotte Coal Co.	Guandotte	Inside													59			58
E. R. Johnson Coal Co.	Johnson Nos. 1-2	Outside													31			39
Draper Coal & Coke Co.	Draper	Inside													57			65
H. T. Wilson Coal Co.	Wilson	Inside													58			70
Fort Branch Coal Corporation	Fort Branch	Outside													33	12		41
Price Coal Co.	Wanda	Inside													45			53
Manitoba Coal Co.	Dixie	Inside	10												46			60
Rex Coal & Coke Co.	Rex	Outside													57	14		66
The Logan Coal Co.	Logan	Inside													62	9		74
Ethel Coal Co.	Ethel Nos. 1-2	Inside													77	12		90
The Monitor Coal & Coke Co.	Monitor & Beechwood	Outside													197	13		209
Yuma Coal & Coke Co.	Yuma	Inside	10	2											74	72		85
The Gay Coal & Coke Co.	Gay	Outside													60	11		74
Shamrock Coal Co.	Litz	Inside													44	14		50
Cora Coal & Coke Co.	Cora	Outside	4												76	6		88

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE Ovens, FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF COMPANY.	NAMB OF MINE.	WHERE EMPLOYED	American	Austrian	Belgian	Bohemian	Danish	English	French	German	Greek	Hungarian	Irish	Italian	Lithuanian	Negro	Polish	Romanian	Russian
MINGO COUNTY—Con.																			
The Buffalo Collieries Co.	Buffalo	Inside	110																
		Outside	30																
Howard Colliery Co.	Howard	Inside	91											1					
		Outside	10																
Howard Junior Coal Co.	Howard, Jr	Inside	61											4		1			
		Outside	6											19		1			
E. L. Sternberger Coal Co.	Sternberger	Inside	63																
		Outside	39																
Williamson Coal & Coke Co.	Williamson No. 3	Inside	19										10			2			
		Outside	20																
Superior Thacker Coal Co.	Williamson No. 1	Inside	5	4															
		Outside	4																
Crystal Block Coal & Coke Co.	Winfrede	Inside	19									16							
		Outside	13									1							
The White Star Mining Co.	White Star	Inside	20											15					
		Outside	4											3		1			
Great Bend Coal Co.	Great Bend or Belvidere	Inside	24																
		Outside	6																
Marvin Coal Co.	Marvin	Inside	42																
		Outside	10																
Red Jacket Cons. Coal & Coke Co.	Ruthford	Inside	25										5	10		11			
		Outside	4																
Red Jacket Cons. Coal & Coke Co.	Red Jacket	Inside	32													15			
		Outside	15																
Red Jacket Cons. Coal & Coke Co.	Lack Fork	Inside	16											8		9			
		Outside	4																
Red Jacket Cons. Coal & Coke Co.	Grapevine	Inside	13											10		3			
		Outside	5																
Red Jacket Cons. Coal & Coke Co.	Mitchells Branch	Inside	66									64		64		64			
		Outside	20													12			
Magnolia Coal & Coke Co.	Magnolia	Inside	33																
		Outside	11																
		Inside	60							3									
		Outside	20									45		12		50			
Thacker Coal & Coke Co.	Thacker Nos. 2, 3, 6-7-9	Outside	20									5		1		4			

NATIONALITIES OF PERSONS EMPLOYED AT THE MINES AND COKE OVEN, FOR THE YEAR ENDING JUNE
30TH, 1912.

NAME OF COMPANY.	NAME OF MINE.	WHERE EMPLOYED	Slavish	Scottish	Swedish	Serbian	Welsh	Serbian	Chinese Negro	Polish	Harwall	Serbian	Unknown	Total Inside Employees	Total Outside Employees (Coke Yard)	Total Coke Employees	Grand Total
MINGO COUNTY— <i>Con.</i> Thacker Coal & Coke Co.	Thacker No. 10.	Inside.												18	4		22
	Thacker Nos. 11-12-13-14	Outside.	5											63	50		113
	Red Jacket Jr. Coal Co.	Inside.												176	37		213
	Glen Alum Coal Co.	Outside.											9	224	30		230
	War Eagle Coal Co.	Inside.												60	15		75
	War Eagle Coal Co.	Outside.												500	12		62
	Margaret Mining Co.	Inside.												40	10		50
	Sycamore Coal Co.	Outside.	6					1						83	12		95
	Mary Helen.	Outside.	20					2						55	20		75
		Outside.															
	Totals.		38					3					9	2,181	40		2,661
WAYNE COUNTY East Lynn Coal Co.	East Lynn & Saganore.	Inside.												51	17		68
	Totals.	Outside.												51	17		68

TABLE SHOWING AVERAGE PRICE PAID PICK MINERS PER YEAR
AND MONTH FROM 1897 TO 1912 INCLUSIVE.

YEAR	Average Earnings of of Each Pick Miner		Average Price Per Ton of 2240 lbs. Received for Pickmining (Run of Mine.)
	Per Year.	Per Month	
1897.....	\$ 275.58	\$ 22.96	.35½
1898.....	316.39	26.36	.32-9-10
1899.....	367.84	30.65	.36½
1900.....	451.77	37.65	.41-1-16
1901.....	459.56	38.29	.44½
1902.....	533.56	44.46	.47½
1903.....	499.06	41.59	.49½
1904.....	484.96	40.41	.49½
1905.....	508.01	42.17	.47
1906.....	599.37	49.95	.48
1907.....	643.05	53.59	.49
1908.....	503.84	41.99	.46
1909.....	481.17	40.10	.43
1910.....	573.94	47.83	.44
1911.....	570.48	47.54	.44½
1912.....	618.52	51.54	.47

*WAGES PAID AND SELLING PRICE OF COAL AND COKE FOR THE
YEAR ENDING JUNE 30TH, 1912.*

COUNTY	Pick Miners Paid Per Ton of 2240 lbs.				Selling Price of	
	Run of Mine			Screened	COAL	COKE
	Day	Room	Heading	Room	Ton of 2240 lbs.	Ton of 2000 lbs.
Brooke.....		.95			1.06	
Hancock.....						
Marion.....		.50	.56		.90	1.95
Marshall.....		.52			1.02	
Ohio.....		.95			1.07	
Harrison.....		.48	.56		.78	1.76
Lewis.....		.40	.57		.95	
Upshur.....		.38	.46		.77	
Barbour.....		.40	.47		.75	1.36
Monongalia.....		.41	.47		.88	1.59
Preston.....		.42	.49		.92	1.62
Taylor.....		.38	.45		.77	1.60
Grant.....		.52			.78	
Mineral.....		.56	.61		.93	
Randolph.....		.42	.50		.96	
Tucker.....		.45	.49		1.07	2.13
Braxton.....		.44			.91	
Gilmer.....		.46	.50		.95	
Mason.....		.56			.98	
Putnam.....		.61		.78	1.11	
Clay.....		.49			.85	
Fayette:						
New River.....	2.50	.49			.96	1.96
Kanawha River.....		.49	.51		1.07	1.31
Loup Creek.....		.46	.55		1.20	2.48
Kanawha.....		.49			.96	1.75
Boone.....		.42			.94	
Nicholas.....		.50	.55		.97	1.36
Greenbrier.....		.50			1.24	
Raleigh.....		.50			1.08	
Mercer.....		.38	.52		1.03	1.68
McDowell:						
Poca, No. 3 & 4.....		.33	.38		.91	1.72
Poca, Thin Vein.....		.36	.43		1.01	2.00
Lincoln.....		.30			.98	
Logan.....		.33	.44		.86	
Mingo.....		.38	.44		1.01	
Wayne.....		.35			.85	
Average.....	2.50	.47	.49	.78	.95	1.81

SUMMARY OF WAGES PAID MACHINE MINERS, RUNNERS AND HELPERS, FOR THE YEAR ENDING JUNE 30TH,

1912.

COUNTIES	Machine Miners Paid Per				Machine Runners		Machine Helpers	
	Ton of 2240 lbs.		Ton of 2240 lbs. Screened		Wages	Paid by	Wages	Paid by
	Day	Room	Heading	Room				
Brooke		.52½			.12	Long ton Heading	.42	Long ton Heading
Marion		.31	.36		.05½	Long ton Room	.05½	Long ton Room
					.09½	Long ton Heading	.09½	Long ton Heading
					.07	Long ton Room	.07	Long ton Room
Marshall		.34	.54		3.00	Per Day	2.50	Per Day
					.11	Long ton Heading	.11	Long ton Heading
					.05½	Long ton Room	.05½	Long ton Room
Ohio		.33	.54		.11½	Long ton Heading	.11½	Long ton Heading
					.07½	Long ton Room	.07½	Long ton Room
Harrison		.25	.44		.12½	Long ton Heading	.12½	Long ton Heading
					.10	Long ton Room	.10	Long ton Room
					3.00	Per Day	2.50	Per Day
Lewis		.26	.28		.09½	Long ton Heading	.09½	Long ton Heading
					.09½	Long ton Room	.09½	Long ton Room
Upshur		.30	.32		.11	Long ton Heading	.11	Long ton Heading
					.07	Long ton Room	.07	Long ton Room
Barbour		.26	.31		.09	Long ton Heading	.09	Long ton Heading
					.06½	Long ton Room	.06½	Long ton Room
					2.75	Per day	2.35	Per day
Monongalia		.30			.18	Per run	.15	Per run
Preston		.28	.32		.06	Long ton Room	.06	Long ton Room
					.10	Long ton Heading	.10	Long ton Heading
					.06	Long ton Room	.06	Long ton Room
					.15	Per Yard	.15	Per Yard
					2.75	Per day	2.50	Per day
Taylor		.23	.31		.07½	Long ton Heading	.07½	Long ton Heading
					.05	Long ton Room	.05	Long ton Room
Grant		.30	.39		.10	Long ton Heading	.10	Long ton Heading
					.06	Long ton Room	.06	Long ton Room
Mineral		.32	.39		2.50	Per Day	2.35	Per Day
					.09	Long ton Heading	.09	Long ton Heading
					.06½	Long ton Room	.06½	Long ton Room
Randolph		.30	.35		2.55	Per Day	2.40	Per Day
Tucker		.33			.12	Long ton Heading	.12	Long ton Heading
					.09	Long ton Room	.09	Long ton Room

SUMMARY OF WAGES PAID MACHINE MINERS, RUNNERS AND HELPERS, FOR THE YEAR ENDING JUNE 30TH,

1912.—Continued.

COUNTIES	Machine Miners Paid Per				Machine Runners		Machine Helpers	
	Ton of 2240 lbs.		Ton of 2240 lbs. Screened		Wages	Paid by	Wages	Paid by
	Day	Room	Heading	Room				
Gilmer		.26	.36		.003	Long ton Room.	.003	Long ton Room
		.35	.41		.003	Long ton Heading.	.003	Long ton Heading
Mason					.003	Long ton Room.	.003	Long ton Room
					2.50	Per Day	2.25	Per Day
Putnam				.44	2.50	Per Day	2.25	Per Day
		.323	.37		.123	Long ton Heading.	.123	Long ton Heading
Clay					.103	Long ton Room.	.103	Long ton Room
					2.55	Per Day	2.35	Per Day
Fayette					.30	Per Day	2.50	Per Day
		.26	.31		.093	Long ton Heading.	.093	Long ton Heading
Kanawha River Series					.093	Long ton Room.	.093	Long ton Room
					2.75	Per Day	2.25	Per Day
Kanawha River Series		.26	.31		.093	Long ton Heading.	.093	Long ton Heading
					.093	Long ton Room.	.093	Long ton Room
New River Proper					3.00	Per Day	2.50	Per Day
		.25	.32		.12	Long ton Heading.	.12	Long ton Heading
New River Proper					.05	Long ton Room.	.05	Long ton Room
		.413	.483	.61	.153	Long ton Screened	.153	Long ton Screened
Loup Creek					.003	Long ton Heading.	.003	Long ton Heading
					3.00	Per Day	2.50	Per Day
Loup Creek		.28	.33		.06	Long ton Heading.	.06	Long ton Heading
					2.52	Per Day	2.39	Per Day
Kanawha		.31	.40		.093	Long ton Heading.	.093	Long ton Heading
	2.15				.06	Long ton Room.	.06	Long ton Room
Boone					.12	Long ton Heading.	.12	Long ton Heading
		.313			.09	Long ton Room.	.09	Long ton Room
Nicholas					2.75	Per Day	2.50	Per Day
		.26	.34		.08	Long ton Room.	.08	Long ton Room
Raleigh					.45	Per Place.	.45	Per Place
					2.75	Per Day	2.50	Per Day
Mercer					.45	Per Place.	.45	Per Place
					2.75	Per Day	2.50	Per Day
McDowell		.28	.34		.45	Per Place.	.45	Per Place
					2.75	Per Day	2.50	Per Day
Poca No. 3					.45	Per Place.	.45	Per Place
					2.75	Per Day	2.50	Per Day
Poca No. 3					.45	Per Place.	.45	Per Place
					2.75	Per Day	2.50	Per Day

STATEMENT SHOWING THE AVERAGE PRICE PAID PICK AND MACHINE MINERS, AND WAGES PAID DAY MEN IN AND ABOUT THE MINES OF THE STATE OF WEST VIRGINIA FOR THE YEAR ENDING JUNE 30TH,
1912.

Pick Miners.....	Per Day.....	2.50
Pick Miners (R. O. M. Room).....	2,240 Lbs.....	.47
Pick Miners (R. O. M. Heading).....	2,240 Lbs.....	.49
Pick Miners (Screened Room).....	2,240 Lbs.....	.78
Machine Miners.....	Per Day.....	2.15
Machine Miners (R. O. M. Room).....	2,240 Lbs.....	.29
Machine Miners (R. O. M. Heading).....	2,240 Lbs.....	.37
Machine Miners (Screened Room).....	2,240 Lbs.....	.46
Machine Miners (Screened Headings).....	2,240 Lbs.....	.55
Machine Runners.....	Per Day.....	2.64
Machine Runners (R. O. M. Room).....	2,240 Lbs.....	.07
Machine Runners (R. O. M. Heading).....	2,240 Lbs.....	.10½
Machine Runners (R. O. M. Screened).....	2,240 Lbs.....	.15½
Machine Runners (Run Entry).....	.....	.28
Machine Runners (Run Room).....	.....	.18
Machine Runner (Place Heading).....	.....	.55
Machine Runner (Place Room).....	.....	.45
Machine Runners (Cut).....	.....	.50
Machine Runners (Yard).....	.....	.15
Machine Runners (Hour).....	.....	.26
Machine Helpers.....	Per Day.....	2.43
Machine Helpers (R. O. M. Room).....	2,240 lbs.....	.06½
Machine Helpers (R. O. M. Headings).....	2,240 lbs.....	.09½
Machine Helpers (Screened).....	2,240 lbs.....	.15½
Machine Helpers (Run Entry).....	.....	.23
Machine Helpers (Run Room).....	.....	.15
Machine Helpers (Place Heading).....	.....	.55
Machine Helpers (Place Room).....	.....	.45
Machine Runners (Yard).....	.....	.15
Machine Runners (Cut).....	.....	.40
Trackmen.....	Per Day.....	2.50
Drivers.....	Per Day.....	2.15
Motormen.....	Per Day.....	2.55
Brakemen.....	Per Day.....	2.20
Laborers (Outside).....	Per Day.....	1.90
Engineers.....	Per Day.....	2.41
Cokemen.....	Per Day.....	1.62
Cokemen.....	Per Oven.....	.61

STATEMENT OF THE TONNAGE OF COAL AND COKE FROM THE COLLIERIES IN WEST VIRGINIA HANDLED
AND TRANSPORTED BY THE RAILROADS IN THE STATE DURING THE TWELVE MONTHS ENDING
JUNE 30th, 1912, AS REPORTED BY THE DIFFERENT RAILROADS.

(Quantities of Coal and Coke are expressed in tons of 2,000 lbs.)

NAME OF RAILROAD	Total Tons Handled		Tons Originating on Line		Tons Delivered to the Line by Other Railroads in W. Va.		Tons Delivered to Other Lines in W. Va.		Tons of W. Va. Fuel Used by the Lines in the State		Railroads & Docks to Which Product is Delivered for Distribution	Points of Destination of the Product	
	Coal	Coke	Coal	Coke	Coal	Coke	Coal	Coke	Coal	Coke		East	West
Baltimore & Ohio R. R. Co.	11,594,115	440,524	10,772,054	127,888	732,061	312,636	4,884,857	215,724	No Record		Various	All Sections	All Sections
Cheapeake & Ohio R. R. Co.	16,175,028	180,089	16,174,385	180,089	643		1,254,526	219	767,535		C. & O. Docks at Newport News; Southern Ry.; A. C. L.; S. A. L. R. F. & P. Ry.; C. C. & S. L. Ry.; B. & O. S. W. Ry.; C. H. & D.; and C. C. & S. L.	Coast-Wise New England New York, etc., Export Richmond, Lynchburg & various Southern points.	Cincinnati, Chicago, Toledo, and various Northern and Western Ports.
Coal & Coke Railway Co.	795,556	89,406	759,745	89,406	35,811		770,532	89,318	46,276		Kanawha & Michigan Ry.; Baltimore & Ohio Ry.; and Western Maryland Ry.	Curtis Bay, Md., Pt. Richmond, Pa., Port Reading, Pa., Port Covington, Md. and various Eastern points.	Toledo Docks, O., Lorain Docks, O., and various western & Northern points.
Norfolk & Western Ry. Co.	21,405,939	1,384,084	19,273,140	1,131,098	216,736	1,094	1,773	125	777,599		Lamberts Point Piers A. C. Line, S. A. Line, Southern Ry., L. & N. Ry., Toledo & Sandusky Docks & C. C. Lines.	Foreign Ports and Atlantic Coast (Tidewater) Virginia, N. and S. Carolina Points, (inland).	Cincinnati, Lake Points Chicago & Western cities.
Kanawha & Michigan R. R.	4,312,555	161,060	2,773,360	156,527	1,539,195	4,533			84,912		Various Railroads throughout the State. Docks at Toledo, on Hocking Valley and Toledo on O. C.		All points in Ohio, Indiana and Lake Ports.

STATEMENT OF THE TONNAGE OF COAL AND COKE FROM THE COLLIERIES IN WEST VIRGINIA HANDLED
AND TRANSPORTED BY THE RAILROADS IN THE STATE DURING THE TWELVE MONTHS ENDING
JUNE 30th, 1912, AS REPORTED BY THE DIFFERENT RAILROADS.—Continued.

NAME OF RAILROAD	Total Tons Handled		Tons Originating on Line		Tons Delivered to the Line by Other Railroads in W. Va.		Tons Delivered to Other Lines in W. Va.		Tons of W. Va. Fuel Used by the Lines in the State		Railroads & Docks to Which Product is Delivered for Distribution	Points of Destination of the Product	
	Coal	Coke	Coal	Coke	Coal	Coke	Coal	Coke	Coal	Coke		East	West
Virginian Ry.-----	3,360,879	39	2,607,104		733,773	59			162,282		Atlantic Coast Line, Southern Ry., & Norfolk Southern Ry.	Sewell's Point, Va., and various eastern points.	
Western Mary- land Ry.-----	3,025,725	86,861	2,754,253	75,253	269,471	11,605	89,430	1,508	194,201		B. & O. Railroad, P. & R. Ry., Pennsyl- vania Ry. C. & C. Ry., and their con- nections.	Coal Piers at Bal- timore, Philadelphia and New York and local points on W. M. Ry., B. & O. R. R., Pennsylvania R. R. & P. & R. Ry. and connections.	Various Western points via B. & O. R. R. and Coal & Coke Ry., and their connections.
Totals-----	60,579,797	2,339,683	55,114,041	1,760,861	3,547,692	329,930	7,901,117	306,894	2,032,805				

*STATEMENT SHOWING THE QUANTITY OF EXPLOSIVES USED AND
THE COAL PRODUCED BY IT AT THE MINES, BY COUNTIES,
FOR THE YEAR ENDING JUNE 30TH, 1912.*

COUNTY	No. of Operations Reporting	Tons of Coal (Tons of 2240 lbs.)	No. Kegs of Powder Used	Cost Per Keg to Miner	No. lbs. of Dynamite Used	No. lbs. So-Called Safety Powder Used
Brooke.....	6	680,192	3,544	1.68	745	
Marion.....	34	4,833,652	18,551	1.60	566	604,741
Marshall.....	7	664,393	3,054	1.75	70	
Ohio.....	5	374,595	1,494	1.67		
Harrison.....	66	4,529,344	20,822	1.57	11,371	433,641
Lewis.....	1	40,057	100	1.75		10,000
Upshur.....	3	37,091	699	1.62		
Barbour.....	14	756,395	2,392	1.57	175	10,161
Monongalia.....	7	382,164	3,192	1.59		1,679
Preston.....	15	841,801	7,165	1.58	75	10,525
Taylor.....	10	731,300	5,290	1.61	2,956	6,100
Grant.....	2	188,967	800	1.70		1,600
Mineral.....	18	655,941	3,884	1.75	950	400
Randolph.....	12	716,632	869	1.61	2,100	
Tucker.....	15	1,114,732	600	1.75		14,400
Braxton.....	4	203,430	4,358	1.72	642	1,500
Gilmer.....	3	57,641	700	1.75		1,350
Mason.....	3	139,377	1,797	1.75		
Putnam.....	3	506,470	13,400	1.75	850	
Clay.....	3	181,963	3,089	1.75	475	
Fayette.....	103	8,812,058	83,918	1.87	43,407	998,387
Kanawha.....	99	5,606,522	48,383	1.71	15,988	540
Boone.....	8	329,179	3,057	2.00		
Nicholas.....	5	46,135	262	1.75		
Greenbrier.....	1	52,358	768	1.75	600	
Raleigh.....	43	4,581,776	20,941	1.75	2,750	645,929
Mercer.....	22	2,783,866	33,441	1.92	2,800	25,025
McDowell.....	103	13,768,077	71,998	1.76	19,962	591,060
Logan.....	33	3,243,033	25,604	1.78	1,775	9,675
Mingo.....	29	2,374,563	24,430	1.87	6,345	64,646
Wayne.....	1	48,130	628	1.75		
Totals.....	678	59,281,774	409,540	1.72	114,680	3,430,759

STEAM BOILERS AT MINES.—1912.

COUNTY	No. of Boilers Insured	No. of Boilers Not Insured	Total
Brook	7	—	7
Marion	119	—	119
Marshall	12	—	12
Ohio	2	—	2
Harrison	82	—	82
Upshur	3	—	3
Barbour	28	—	28
Monongalia	7	—	7
Preston	33	—	33
Taylor	12	—	12
Grant	10	—	10
Mineral	15	—	15
Randolph	15	—	15
Tucker	17	—	17
Braxton	4	—	4
Gilmer	1	—	1
Mason	4	—	4
Putnam	7	—	7
Clay	4	—	4
Fayette	276	—	276
Kanawha	170	—	170
Boone	9	—	9
Nicholas	6	—	6
Greenbrier	1	—	1
Raleigh	108	—	108
Mercer	68	—	68
McDowell	279	—	279
Logan	42	—	42
Mingo	76	—	76
Wayne	1	—	1
Totals	1,417	—	1,417

SUMMARY OF THE NUMBER OF MINE LOCOMOTIVES IN THE STATE.—1912.

COUNTY	No. of Mines ing Loco- motives	LOCOMOTIVES				Sum Total
		Steam	Electric	Compress- ed Air	Gasoline	
Brooke	6	—	13	—	—	13
Marion	21	—	43	25	—	68
Marshall	4	—	16	—	—	16
Ohio	3	—	5	—	—	5
Harrison	29	3	37	—	1	41
Upshur	1	—	3	—	—	3
Barbour	7	—	14	—	—	14
Monongalia	4	—	10	—	—	10
Preston	8	—	23	—	—	23
Taylor	6	—	12	—	—	12
Grant	2	—	5	—	—	5
Mineral	5	2	2	—	1	5
Randolph	3	1	7	—	—	8
Tucker	9	2	22	—	—	24
Braxton	2	—	3	—	—	3
Mason	3	—	4	—	—	4
Putnam	3	2	9	—	—	11
Clay	2	—	5	—	—	5
Fayette	83	13	249	3	5	270
Kanawha	83	2	154	—	1	157
Boone	4	—	—	—	—	8
Nicholas	2	—	3	—	—	3
Raleigh	37	3	151	—	1	153
Mercer	18	17	29	—	—	46
McDowell	85	11	251	3	4	269
Logan	28	—	78	—	2	80
Mingo	22	6	38	7	2	53
Totals	480	62	1,194	38	17	1,311

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Elec- tric	Comp. Air	Gaso- line
BROOKE COUNTY					
W. Va. Pittsburg Coal Co.	Number Three		1		
W. Va. Pittsburg Coal Co.	Number Four		1		
W. Va. Pittsburg Coal Co.	Locust Grove		3		
Beech Bottom Coal Co.	Beech Bottom No. 1		3		
LaBelle Coal Co.	Lewis No. 1		1		
La Belle Iron Works	LaBelle Shaft		4		
Totals			13		
MARION COUNTY					
The Consolidation Coal Co.	Consolidation No. 22		2		
The Consolidation Coal Co.	Consolidation No. 24		2		
The Consolidation Coal Co.	Consolidation No. 26		5		
The Consolidation Coal Co.	Consolidation No. 28		1		
The Consolidation Coal Co.	Consolidation No. 34		1		
The Consolidation Coal Co.	Consolidation No. 36		2		
The Consolidation Coal Co.	Consolidation No. 38		2		
The Consolidation Coal Co.	Consolidation No. 43		4		
The Consolidation Coal Co.	Consolidation No. 47		2		
The Consolidation Coal Co.	Consolidation No. 53		2		
The Consolidation Coal Co.	Consolidation No. 56		2		
The Consolidation Coal Co.	Consolidation No. 59		1		
The Consolidation Coal Co.	Consolidation No. 63		7		
The Consolidation Coal Co.	Consolidation No. 67		1		
Jamison Coal & Coke Co.	Jamison No. 7			2	
Jamison Coal & Coke Co.	Jamison No. 8			6	
Jamison Coal & Coke Co.	Jamison No. 9			2	
New Central Coal Co.	Stafford			3	
Federal Coal & Coke Co.	Federal No. 1		6		
The Va. & Pittsburg Coal & Coke Co.	Kingmont		3		
Four States Coal & Coke Co.	Annelle No. 1 & 2			12	
Totals			43	25	
MARSHALL COUNTY					
Hitchman Coal & Coke Co.	Hitchman		7		
Wheeling Steel & Iron Co.	Benwood		5		
Ben Franklin Coal Co. of W. Va.	Panama		3		
Glendale Coal Co.	Glendale		1		
Totals			16		
OHIO COUNTY					
Richland Coal Co.	Richland		3		
Elm Grove Coal Co.	Elm Grove		1		
Whitaker-Glessner Co.	Carter		1		
Totals			5		
HARRISON COUNTY					
The Consolidation Coal Co.	Consolidation No. 21		2		
The Consolidation Coal Co.	Consolidation No. 25		2		
The Consolidation Coal Co.	Consolidation No. 27		1		
The Consolidation Coal Co.	Consolidation No. 32		2		
The Consolidation Coal Co.	Consolidation No. 33		1		
The Consolidation Coal Co.	Consolidation No. 35		1		
The Consolidation Coal Co.	Consolidation No. 39		1		
The Consolidation Coal Co.	Consolidation No. 40		2		
The Consolidation Coal Co.	Consolidation No. 42		1		
The Consolidation Coal Co.	Consolidation No. 48		1		
The Consolidation Coal Co.	Consolidation No. 49		3		
The Consolidation Coal Co.	Consolidation No. 50		2		
The Consolidation Coal Co.	Consolidation No. 51		1		
The Consolidation Coal Co.	Consolidation No. 55		1		
The Consolidation Coal Co.	Consolidation No. 58		1		
The Consolidation Coal Co.	Consolidation No. 66		1		
Virginia Maryland Coal Corporation	Willard Nos 1-2	1			
Corona Coal & Coke Co.	Harold		1		
Hutchinson Coal Co.	Eric		1		
Hutchinson Coal Co.	McCandlish		2		
Hutchinson Coal Co.	Delta		1		
Hutchinson Coal Co.	Hutchinson		2		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
HARRISON COUNTY—Con.					
Rosebud Fuel Co.	Rosebud No. 2.		1		
Fairmont & Baltimore Coal & Coke Co.	Fairmore	1			
Madeira-Hill-Clark Coal Co.	Randolph		2		
Madeira-Hill-Clark Coal Co.	New Chieftain		2		
Harry B. Coal & Coke Co.	Pitcairn	1	1		
Marshall Coal Co.	Marshall				1
Marion Gas Coal Co.	Bingamon		1		
Totals		3	37		1
UPSHUR COUNTY					
Red Rock Fuel Co.	Red Rock No. 1.		3		
Totals			3		
BARBOUR COUNTY					
Meriden Coal Mining Co.	Meriden Nos. 1-2		2		
Tygart's River Coal Co.	Arden		1		
The Consolidation Coal Co.	Consolidation No. 37		4		
The Century Coal Co. of W. Va.	Century Nos. 1-2		4		
Gace Coal & Coke Co.	Sara		1		
Midland Coal & Coke Co.	Midland		1		
Humphreys Coal Co.	Humphreys		1		
Totals			14		
MONONGALIA COUNTY					
The Consolidation Coal Co.	Consolidation No. 30		1		
Elkins Coal & Coke Co.	No. 1		3		
Elkins Coal & Coke Co.	No. 3		1		
Elkins Coal & Coke Co.	No. 5		5		
Totals			10		
PRESTON COUNTY					
The Austin Coal & Coke Co.	Austin No. 1		3		
The Austin Coal & Coke Co.	Austin No. 2		1		
Merchants Coal Co.	Tunnelton		5		
Elkins Coal & Coke Co.	Elkins No. 2		4		
Elkins Coal & Coke Co.	Elkins No. 4		2		
Elkins Coal & Coke Co.	Elkins No. 6		3		
Preston County Coke Co.	Cascade Nos. 1-2-3		4		
Hiorra Coke Co.	Vulcan		1		
Totals			23		
TAYLOR COUNTY					
Pittsvein Coal Co.	No. 4		1		
McGraw Coal Co.	New York		3		
Rosemont Coal Co.	Rosemont		3		
Maryland Coal Co. of W. Va.	Wendel No. 1-2-4-5		2		
Winona Coal & Coke Co.	Winona		1		
Sterling Coal Co. Ltd.	Cecil		2		
Totals			12		
GRANT COUNTY					
Davis Coal & Coke Co.	Henry No. 22		4		
Buffalo Creek Cumberland Coal Co.	Buffalo Creek No. 1		1		
Totals			5		
MINERAL COUNTY					
Davis Coal & Coke Co.	Elk Garden No. 6	1			
Davis Coal & Coke Co.	Ott No. 20				1
Davis Coal & Coke Co.	Montgomery Run No. 19	1			
Abrams Creek Coal & Coke Co.	Oakmont No. 1		1		
Gleason Coal & Coke Co.	Gleason		1		
Totals		2	2		1
RANDOLPH COUNTY					
Davis Colliery Co.	Coalton		4		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
RANDOLPH COUNTY—Con.					
Davis Colliery Co.	Harding		3		
W. H. Green	W. H. Green	1			
Totals		1	7		
TUCKER COUNTY					
Cumberland Coal Co.	Douglas No. 1	1	2		
Cumberland Coal Co.	Douglas No. 5	1	1		
Davis Coal & Coke Co.	Thomas No. 23		5		
Davis Coal & Coke Co.	Thomas No. 25		2		
Davis Coal & Coke Co.	Thomas No. 34		2		
Davis Coal & Coke Co.	Coketon No. 36		4		
Davis Coal & Coke Co.	Coketon No. 37		3		
Davis Coal & Coke Co.	Frances No. 4		1		
Davis Coal & Coke Co.	Benbush No. 38		2		
Totals		2	22		
BRAXTON COUNTY					
Davis Colliery Co.	Bower No. 10		2		
Davis Colliery Co.	Copen No. 11		1		
Totals			3		
MASON COUNTY					
Hutchinson Coal Co.	Linden		2		
Jackson Coal & Mining Co.	Jackson Furnace		1		
Hartford Coal & Mining Co.	Hartford		1		
Totals			4		
PUTNAM COUNTY					
Plymouth Coal & Mining Co.	Plymouth & Manilla	2	2		
The Otto Marmet Coal & Mining Co.	Big Otto Nos. 1-2-3		4		
Black Betsey Coal & Mining Co.	Black Betsey		3		
Totals		2	9		
CLAY COUNTY					
Elk Manor Coal Co.	Dorfee		1		
Elk River Coal & Lumber Co.	Rich Run		4		
Totals			5		
FAYETTE COUNTY					
Sunday Creek Co.	No. 111		1		
Sunday Creek Co.	No. 112		8		
Sunday Creek Co.	No. 114		4		
Sunday Creek Co.	No. 115		5		
Columbus Iron & Steel Co.	No. 1		6		
W. R. Johnson Coal Co.	Kanawha Gas		1		
W. R. Johnson Coal Co.	Oakland Nos. 1 & 2		3		
Boomer Coal & Coke Co.	No. 1		1		
Boomer Coal & Coke Co.	No. 2		4		
Boomer Coal & Coke Co.	No. 3		2		
Boomer Coal & Coke Co.	No. 4		2		
Paint Creek Collieries Co.	Hickory Camp		1		
W. R. Johnson Coal Co.	Crescent Nos. 5-6		1		
Mecca Colliery Co.	Mecca Gas		1		
Mecca Colliery Co.	Mecca Splint		1		
Mecca Colliery Co.	Diamond	1	2		
Great Kanawha Colliery Co.	Eureka No. 14		1		
St. Clair Colliery Co.	St. Clair		1		
M. B. Coal & Coke Co.	Kimberly No. 3		1		
M. B. Coal & Coke Co.	Elk Ridge No. 1		1		
M. B. Coal & Coke Co.	Elk Ridge No. 2		1		
The Mt. Carbon Co., Ltd.	Vulcan		1		1
Loup Creek Colliery Co.	Loup Creek No. 2 Gas	3	9		
Herbert Collieries Co.	Herberton		1		
Lynchburg Colliery Co.	No. 2 Gas & No. 5 Splint		2		
Gamoca Coal Co.	No. 5 Splint				
Christain Colliery Co.	Eagle & Powelton		4		
Milburn Coal & Coke Co.	No. 1		3		

**NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.**

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
FAYETTE COUNTY—Con.					
Solvay Collieries Co.	No. 1, A. & B.		1		2
The Gauley Mountain Coal Co.	Nova Scotia & Turkey Creek		11		
Gaymont Colliery Co.	Gaymont		1		
G. M. Blume Estate	Fayette		2		
Brown Coal Co.	Brown		2		
Nuttallburg Smokeless Fuel Co.	Nuttall		3		
Holliday Coal Co.	Keeney Creek				1
Keeney's Creek Colliery Co.	Smokeless		2		
Keeney's Creek Colliery Co.	Boone		1		
Ballinger Coal Co.	Ballinger No. 1				1
Rothwell Coal Co.	Dubree		1		
Blume Coal & Coke Co.	Blume		2		
Fire Creek Coal & Coke Co.	Fire Creek & Buffalo		2		
Sewell Colliery Co.	Sewell		1		
Beechwood Coal & Coke Co.	Beechwood No. 2		1		
Alaska Coal & Coke Co.	Alaska	1			
Ephraim Creek Coal & Coke Co.	Buffalo & Slater		7		
Laurel Creek Coal Co.	Laurel		3		
Glendale Colliery Co.	Buck Lick	1			
Quinnimont Coal Co.	Big Q	1	1		
Greenwood Coal Company	Greenwood	2	3		
Hemlock Hollow Coal & Coke Co.	Hemlock		4		
New River & Pocahontas Cons. Coal Co.	Layland		21		
New River & Pocahontas Cons. Coal Co.	Minden No. 2		5		
New River & Pocahontas Cons. Coal Co.	Minden No. 3		7		
New River & Pocahontas Cons. Coal Co.	Minden No. 4		8		
New River & Pocahontas Cons. Coal Co.	Minden No. 5		7		
Low Moor Iron Co. of Va.	Kaymoor No. 2		1		
Branch Coal & Coke Co.	Elverton		2		
South Side Co.	South Side		2		
The Thurmond Coal Co.	Thurmond No. 1		3		
Scotia Coal & Coke Co.	Brooklyn		5		
Scotia Coal & Coke Co.	Red Ash		2		
Scotia Coal & Coke Co.	Rush Run & Once More		6		
Glade Coal Works	No. 3		1		
New River Collieries Co.	Sun N. s. 1-2-3		9		
Meadow Fork Coal Co.	Meadow Fork		1		
Star Coal & Coke Co.	Star	1	1		
Nichol Colliery Co.	Nichol		5		
McKell Coal & Coke Co.	Derryhale		2		
McKell Coal & Coke Co.	Kilsyth		6		
Harvey Coal & Coke Co.	Harvey Nos. 1 & 2		4		
Prudence Coal Co.	Prudence		4		
White Oak Coal Co.	Wingrove	1	4		
White Oak Coal Co.	Seacroft		4		
White Oak Coal Co.	Whipple		1	1	
White Oak Coal Co.	Oakwood		2		
White Oak Coal Co.	Carlisle		3		
Collins Colliery Co.	Collins Nos. 1 & 2		5		
Stuart Colliery Co.	Summerlee	1	2	1	
Stuart Colliery Co.	Stuart		6		
Dunlop Coal & Coke Co.	Klondyke		3		
MacDonald Colliery Co.	MacDonald		1		
Turkey Knob Coal Co.	Turkey Knob		4		
Turkey Knob Coal Co.	Hickory Branch		1		
Totals		13	219	3	5
KANAWHA COUNTY					
Morris Fork Coal Co.	Turner Nos. 1-2		1		
Villa Coal Mining Co.	Mill Creek	1			
Blue Creek Coal & Land Co.	Wills Hollow		2		
Blue Creek Coal & Land Co.	Blakeley		1		
Standard Kanawha Coal Mining Co.	No. 1		1		
Standard Kanawha Coal Mining Co.	No. 2		1		
Williams Coal Co.	William		1		
Campbells Creek Coal Co.	No. 1		5		
Campbells Creek Coal Co.	No. 3		3		
Virginia Coal Co.	No. 1		2		
Quincy Coal Co.	Quincy No. 2		1		
Sunday Creek Co.	No. 101		2		
Sunday Creek Co.	No. 104		2		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
KANAWHA COUNTY—Con.					
Sunday Creek Co.	No. 105.		5		
Kelleys Creek Colliery Co.	No. 1.				1
Kelleys Creek Colliery Co.	No. 3.		5		
Hughes Creek Coal Co.	Splint & Gas.		5		
Cannelton Coal & Coke Co.	Nos. 1-2.		5		
Cannelton Coal & Coke Co.	No. 3.		1		
The Marmet Coal Co.	Monarch.		2		
The Marmet Coal Co.	New Butler.		1		
The Marmet Coal Co.	Lens Creek.		1		
The Marmet Coal Co.	Black Band.		5		
Olcott Coal & Iron Co.	No. 1.		4		
Olcott Coal & Iron Co.	No. 2.		2		
Winifrede Coal Co.	North.		2		
Winifrede Coal Co.	West.		2		
Winifrede Coal Co.	South.		2		
Dry Branch Coal Co.	Coalburg.		1		
Dry Branch Coal Co.	Belmont.		1		
Wyatt Coal Co.	Oakley.		1		
Wyatt Coal Co.	Berlin.		2		
Wyatt Coal Co.	Horton No. 1.		1		
Wyatt Coal Co.	Horton No. 2.		2		
Lewis Coal & Coke Co.	Lewiston.		1		
Southern Collieries Co.	Lamont.		2		
Holley-Stephenson Coal & Coke Co.	Stephenson No. 5.		1		
Holley-Stephenson Coal & Coke Co.	Stephenson No. 2.		2		
Wake Forest Mining Co.	Wake Forest.		2		
Carbon Coal Co.	No. 3.		1		
Carbon Coal Co.	Carbon Gas.		2		
Carbon Coal Co.	Carbon Splint.		6		
Republic Coal Co.	No. 1.		4		
Republic Coal Co.	No. 3.		3		
Republic Coal Co.	No. 5.		2		
West Virginia Colliery Co.	No. 1.		2		
West Virginia Colliery Co.	No. 2.		1		
West Virginia Colliery Co.	No. 3.		2		
West Virginia Colliery Co.	No. 4.		2		
Cabin Creek Consolidated Coal Co.	Davis.		1		
Cabin Creek Consolidated Coal Co.	Cherokee.		1		
Cabin Creek Consolidated Coal Co.	Red Warrior.		1		
Cabin Creek Consolidated Coal Co.	Buckeye.		1		
Cabin Creek Consolidated Coal Co.	Empire.		1		
Cabin Creek Consolidated Coal Co.	Black Tulip.		1		
Cabin Creek Consolidated Coal Co.	Keystone.		1		
Cabin Creek Consolidated Coal Co.	Acme.		1		
Cabin Creek Consolidated Coal Co.	Shamrock.		2		
Cabin Creek Consolidated Coal Co.	Thistle.		1		
Cabin Creek Consolidated Coal Co.	Raccoon Gas.		1		
Cabin Creek Consolidated Coal Co.	Raccoon No. 2 East & West.		2		
Cabin Creek Consolidated Coal Co.	Rose.		1		
Cabin Creek Consolidated Coal Co.	Kayford.		3		
Cabin Creek Consolidated Coal Co.	United Gas.		2		
Cabin Creek Consolidated Coal Co.	United Splint.		1		
Cabin Creek Consolidated Coal Co.	Bellevue.		1		
Paint Creek Coal Co.	Reynolds.		1		
Paint Creek Collieries Co.	Knickerbocker.	1			
Paint Creek Collieries Co.	Scranton.		2		
Paint Creek Collieries Co.	Paint Creek.		2		
Paint Creek Collieries Co.	Wacomah.		1		
Paint Creek Collieries Co.	Banner.		1		
Paint Creek Collieries Co.	Grose No. 1.		1		
Paint Creek Collieries Co.	No. 2 Gas.		1		
Coalburg-Kanawha Coal Co.	A & B.		2		
Belmont Coal Co.	Belmont & Cedar Grove.		2		
Crown Hill-Kanawha Coal Co.	Crown Hill.		2		
Standard Splint & Gas Coal Co.	Standard.		2		
Imperial Colliery Co.	Imperial.		2		
Imperial Colliery Co.	Nos. 2-3.		3		
Chesapeake Mining Co.	Chesapeake No. 1.		2		
Chesapeake Mining Co.	Gas.		2		
Morris Creek Colliery Co.	Morris Creek.		1		
Totals.		2	154		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
BOONE COUNTY					
The Coal River Co.	Ottawa No. 1		2		
Hickory Ash Coal Co.	Nos. 1-2-3		2		
Anchor Coal Co.	Anchor		2		
Seng Creek Coal Co.	Blue Star		2		
Totals			8		
NICHOLAS COUNTY					
The Saxman Coal & Coke Co.	Saxman Nos. 1 & 2		2		
Totals			3		
RALEIGH COUNTY					
Four States Coal & Coke Co.	Dorothy		9		
Four States Coal & Coke Co.	Sarita		7		
Clear Fork Coal Co.	Leevale		3		
Lanark Coal Co.	Lanark No. 4	1	2		
New River Collieries Co.	Eccles Nos. 1-2		3		
New River Collieries Co.	Eccles Nos. 3-4		4		
New River Collieries Co.	Eccles No. 5		3		
New River Collieries Co.	Eccles No. 6		7		
McKell Coal & Coke Co.	Oswald Nos. 1-2		7		
McKell Coal & Coke Co.	Graham Nos. 1-2		3		
McKell Coal & Coke Co.	Tamroy		6		
Piney Mining Co.	Nos. 1-2		3		
Piney Mining Co.	No. 3	1	1		
Piney Mining Co.	No. 4		1		
Raleigh Coal & Coke Co.	Raleigh Nos. 1-2-4		6		
Raleigh Coal & Coke Co.	Raleigh No. 9		7		
Raleigh Coal & Coke Co.	Raleigh No. 6		9		
Blue Jay Lumber Co.	Blue Jay No. 4	1			
Sullivan Coal & Coke Co.	Sullivan		8		
Cranberry Fuel Co.	Cranberry		3		
Mabscott Coal & Coke Co.	Mabscott		1		
Beckley Coal & Coke Co.	Beckley Slope		4		
Price Hill Fuel Co.	Price Hill		1		
Slab Fork Coal Co.	Slab Fork		9		
E. E. White Coal Co.	Nos. 1-2		3		
Pemberton Coal & Coke Co.	Pemberton		3		
Stonewall Coal & Coke Co.	Stonewall		1		
Stonewall Coal & Coke Co.	Terry		4		
Wright Coal & Coke Co.	Wright No. 1		2		
Wright Coal & Coke Co.	Wright No. 2		1		
Gulf Smokeless Coal Co.	Tams		10		
MacAlpin Coal Co.	MacAlpin		5		
Bailey Wood Coal Co.	Bailey Wood		4		
Pemberton Coal & Coke Co.	Big Stick		1		
The Gulf Coal Co.	Gulf & Beaver		2		
Lynwin Coal Co.	Lynwin				1
Winding Gulf Colliery Co.	Winding Gulf		8		
Totals		3	151		1
MERCER COUNTY					
Coaldale Coal & Coke Co.	Coaldale	1	2		
Mill Creek Coal & Coke Co.	Tug River & West Fork	2	3		
Buckeye Coal & Coke Co.	Buckeye	3			
Booth-Bowen Coal & Coke Co.	Booth-Bowen	3			
Peachontas Consolidated Collieries Co.	Caswell Creek & Hemlock	4			
Peachontas Consolidated Collieries Co.	Saranore		4		
Peachontas Consolidated Collieries Co.	West		1		
Louisville Coal & Coke Co.	Louisville Goodwill		3		
Crystal Coal Co.	Crystal		2		
American Coal Co. of Allegheny Co.	Crane Creek		2		
American Coal Co. of Allegheny Co.	Pinnacle		2		
American Coal Co. of Allegheny Co.	Piedmont	1			
The Thomas Coal Co.	Thomas No. 1		2		
Pawanna Coal & Coke Co.	Nos. 1-2		1		
Weyanoke Coal & Coke Co.	Weyanoke & Elihu		5		
Smokeless Coal & Coke Co.	Smokeless		1		
Hiawatha Coal & Coke Co.	Hiawatha	2	1		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
MERCER COUNTY—Cont.					
Spring Coal Mining Co.	Spring	1			
Totals		17	29		
MCDOWELL COUNTY					
Algoma Coal & Coke Co.	Piney & North Fork	2	3		
Elk Ridge Coal & Coke Co.	Elk Ridge		2		
Gilliam Coal & Coke Co.	Gilliam		5		
Indian Ridge Coal & Coke Co.	Indian Ridge		2		
Roanoke Coal & Coke Co.	Roanoke		3		
Arlington Coal & Coke Co.	Arlington		3		
Greenbrier Coal & Coke Co.	Greenbrier		3		
McDowell Coal & Coke Co.	McDowell		5		
Ashland Coal & Coke Co.	Ashland Monitor		3		
Pocahontas Consolidated Collieries Co.	Cherokee	3			
Pocahontas Consolidated Collieries Co.	Lick Branch		4		
Pocahontas Consolidated Collieries Co.	Delta		3		
Pocahontas Consolidated Collieries Co.	Shamokin		3		
Pocahontas Consolidated Collieries Co.	Norfolk		3		
Pocahontas Consolidated Collieries Co.	Angle		2		
Pocahontas Consolidated Collieries Co.	Rolfe		4		
Zenith Coal & Coke Co.	Zenith Nos. 1-2		2		
Elkhorn Coal & Coke Co.	Elkhorn	2			
Turkey Gap Coal & Coke Co.	Turkey Gap	2			
Crozer Coal & Coke Co.	Crozer Nos. 1-2		4		
Houston Coal & Coke Co.	Houston Nos. 1-2		3		
Upland Coal & Coke Co.	Upland No. 1		1		
Powhatan Coal & Coke Co.	Powhatan		3		
Lynchburg Coal & Coke Co.	Lynchburg		2		
Keystone Coal & Coke Co.	Keystone Nos. 1-2		4		
Pulaski Iron Co.	Nos. 1-2		8		
Eureka Coal & Coke Co.	Eureka	2			
Shawnee Coal & Coke Co.	Shawnee		2		
Empire Coal & Coke Co.	Empire		2		
Bottom Creek Coal & Coke Co.	Bottom Creek		3		
Bottom Creek Coal & Coke Co.	Bottom Creek No. 2		2		
Peerless Coal & Coke Co.	Peerless		3		
Tidewater Coal & Coke Co.	Tidewater		3		
The King Coal Co.	King		3		
Dixon Pocahontas Fuel Co.	North		3		
Dixon Pocahontas Fuel Co.	South		5		
Middle States Coal & Coke Co.	Helena		11		
Jed Coal & Coke Co.	Jed		4		
Black Wolf Coal & Coke Co.	Black Wolf		4		
Page Coal & Coke Co.	Nos. 1-2-3		7		
West Virginia Pocahontas Coal Co.	Leckie		3		
United States Coal & Coke Co.	No. 2		3		
United States Coal & Coke Co.	No. 3		2		
United States Coal & Coke Co.	No. 4		2		
United States Coal & Coke Co.	No. 5		1		
United States Coal & Coke Co.	No. 6		3		
United States Coal & Coke Co.	No. 7		3		
United States Coal & Coke Co.	No. 8		2		
United States Coal & Coke Co.	No. 9		13		
United States Coal & Coke Co.	No. 10		3		
United States Coal & Coke Co.	No. 11		3		
Pocahontas Consolidated Collieries Co.	Pocahontas No. 6		6		
Pocahontas Smokeless Coal Co.	Pocahontas Smokeless		1		
Hemphill Colliery Co.	Hemphill				1
Welch Coal & Coke Co.	Welch			1	
Oregon Coal Co.	Nos. 2-3			1	
Standard Pocahontas Coal Co.	Standard		2		
Pando Coal Co.	Pando Nos. 1-2		2		
Superior Pocahontas Coal Co.	Blackstone No. 1		1		
Superior Pocahontas Coal Co.	Davy Crocket		1		
Superior Pocahontas Coal Co.	Helena No. 3		1		
Superior Pocahontas Coal Co.	Cletus		1		
J. B. B. Coal Co.	No. 1		1		
J. B. B. Coal Co.	No. 2		1		
J. B. B. Coal Co.	No. 3		1		
J. B. B. Coal Co.	No. 4		3		
Solvay Collieries Co.	Marytown		3		

NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gaseo-line
McDOWALL COUNTY—Con.					
Solvay Collieries Co.	Big Sandy		2		
Vaughan Coal & Coke Co.	Vaughan		2		
Premier Pocahontas Collieries Co.	Nos. 1-2-3-4		6		
Virginia Pocahontas Coal Co.	No. 1		3		
Virginia Pocahontas Coal Co.	No. 2		4		
Virginia Pocahontas Coal Co.	Nos. 3-4		4		
Virginia Pocahontas Coal Co.	No. 6		7		
Virginia Pocahontas Coal Co.	Caretta		7		
Flat Top Coal Mining Co.	Thomas		1		
Dry Fork Colliery Co.	Dry Fork				2
Buchanan Coal Co.	Buchanan				1
Yukon Pocahontas Coal Co.	Yukon		2		
Excelsior Pocahontas Coal Co.	Excelsior		2		
New River & Poca. Cons. Coal Co.	Nos. 1-2-3-4		8		
New River & Poca. Cons. Coal Co.	Berwind No. 2		6		
New River & Poca. Cons. Coal Co.	Berwind No. 3		5		
Lathrop Coal Co.	Lathrop		3		
Mohawk Coal & Coke Co.	Mohawk			1	
Totals		11	251	3	4
LOGAN COUNTY					
Coal River Coal & Coke Co.	Dobra		2		
Spruce Bend Coal Co.	Sharpless		3		
The Coal Valley Mining Co.	Sylvia		2		
Mifflin Coal Co.	No. 1		2		
Stone Branch Coal Co.	Stone Branch		3		
Guyandotte Coal Co.	Guyandotte				1
E. R. Johnson Coal Mining Co.	Johnson Nos. 1-2		2		
H. T. Wilson Coal Co.	Wilson		3		
Fort Branch Coal Corporation	Fort Branch				1
Price Coal Co.	Wanda		1		
Manitoba Coal Co.	Manitola		1		
Rex Coal & Coke Co.	Rex		1		
The Logan Coal Co.	Logan		2		
The Ethel Coal Co.	Ethel		2		
The Yuma Coal & Coke Co.	Yuma		5		
Gay Coal & Coke Co.	Gay		1		
Cora Coal & Coke Co.	Cora		4		
United States Coal & Oil Co.	Island Creek No. 1		8		
United States Coal & Oil Co.	Island Creek No. 2		3		
United States Coal & Oil Co.	Island Creek No. 3		4		
United States Coal & Oil Co.	Island Creek No. 4		9		
United States Coal & Oil Co.	Island Creek No. 5		5		
United States Coal & Oil Co.	Island Creek No. 7		2		
United States Coal & Oil Co.	Island Creek No. 8		2		
United States Coal & Oil Co.	Island Creek No. 9 & 10		3		
Ferndale Coal Co.	Ferndale		1		
Aracoma Coal Co.	Nos. 1-2		6		
Kohinoor Coal & Coke Co.	Big Vein		1		
Totals			78		2
MINGO COUNTY					
The James R. Shenkin Coal Co.	Naugatuck	1			
Chattaroy Colliery Co.	Chattaroy			1	
The Buffalo Collieries Co.	Buffalo		3	2	
Howard Colliery Co.	Howard			1	
Howard Junior Coal Co.	Howard Junior			1	
E. L. Sternberger Coal Co.	Sternberger				1
Williamson Coal & Coke Co.	Winifred			2	
Superior Thacker Coal & Coke Co.	Williamson		1		
Crystal Block Coal & Coke Co.	Winifrede No. 1	1			
The White Star Mining Co.	White Star				1
Great Bend Coal Co.	Great Bend		1		
Marvin Coal Co.	Marvin		1		
Red Jacket Consolidated Coal & Coke Co.	Red Jacket		1		
Red Jacket Consolidated Coal & Coke Co.	Lick Fork	1			
Red Jacket Consolidated Coal & Coke Co.	Mitchell Branch		13		
Thacker Coal & Coke Co.	Nos. 2-3-6-7-9		3		
Thacker Coal & Coke Co.	Nos. 1-2		3		

*NUMBER AND KINDS OF LOCOMOTIVES IN USE AT THE MINES.—
1912.—Continued.*

NAME OF COMPANY	NAME OF MINE	LOCOMOTIVES.			
		Steam	Electric	Comp. Air	Gasoline
MINGO COUNTY— <i>Con.</i>					
Glen Alum Coal Co.....	Nos. 1-2-3.....		11		
War Eagle Coal Co.....	Pappoose.....	1			
War Eagle Coal Co.....	Mephisto.....	1			
Margaret Mining Co.....	Margaret No. 1.....	1			
Mary Helen Coal Co.....	Mary Helen.....		1		
Totals.....	.....	6	38	7	2

TABLE GIVING THE NUMBER OF MINE OPENINGS; NUMBER OF COKE OVENS; ACRES OF COAL WORKED OUT;
NUMBER OF MULES AND HORSES USED AT THE MINES; NUMBER OF MEN KILLED AND INJURED;
AND KIND OF VENTILATION, FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY	Number of Mine Openings	Total No. of Coke Ovens	Acres of Coal Work- ed Out from Com- mercial Mines	Number of Men Killed	Number of Men Injured Non- fatally	Number of Horses and Mules Used at the Mines	Number of Fans	Number of Furnaces	Number of Natural Ventila- tion	Number of Fire Baskets, Air Shafts, Stacks, etc.
Brooke.....	6		123.67	5	2	28	7			
Marion.....	34	998	898.84	15	66	405	33		5	
Marshall.....	7		120.78	2	4	32	5		1	
Ohio.....	5		68.18	2	3	8	5			2
Harrison.....	66	262	853.51	14	36	522	62	7	4	1
Lewis.....	1		7.28		1	8	1			
Upshur.....	3	36	6.74			4	2			
Barbour.....	14	126	137.32	4	15	90	13	3		
Monongalia.....	7	216	69.48	2	11	15	3	4		
Preston.....	15	956	15.50	2	13	91	14	2		
Taylor.....	10	30	132.90	2	14	71	9	2		
Grant.....	2		34.34	1	8	25	2			
Mineral.....	18		119.26		10	102	14	3	1	
Randolph.....	12	335	130.29	2	3	73	14	7		1
Tucker.....	15	387	232.67	7	18	152	15			
Braxton.....	4		36.98	2	4	36	3	1		
Gilmer.....	3		10.48	1		13	1		2	
Mason.....	3		25.34	1	7	21	3			
Putnam.....	3		92.08	3	5	91	3			
Clay.....	3		33.08	1		11	3			
Payette.....	103	3,311	1,702.19	50	140	1,202	120	11	5	
Kayahwa.....	99	90	1,119.36	24	53	847	100	3	2	
Boone.....	8		50.85	1	1	22	8			
Nicholas.....	5	50	8.38		2	12	3	1		2
Greenbrier.....	1		9.51		1	7				
Mercer.....	22	2,124	526.15	23	62	386	33	2		
Raleigh.....	43		833.05	31	75	385	45	4		
McDowell.....	103	9,830	2,703.28	191	227	1,428	124	9	1	
Logan.....	33		609.64	10	22	190	37	2	1	
Mingo.....	29		452.73	11	34	185	26	6	2	
Wayne.....	1		8.75			9		1		
Totals.....	678	18,751	11,180.67	409	840	6,486	708	77	25	6

*GENERAL SUMMARY OF INSPECTIONS BY DISTRICTS, JULY 1ST,
1910 TO JUNE 30TH, 1912.*

DISTRICT	INSPECTORS	No. of Inspections	No. of Visits	Totals
First.....	Schoew.....	86	39	125
First.....	Vaughn.....	5	0	5
Second.....	Parsons.....	146	57	203
Second.....	Henry.....	7	0	7
Second.....	Schoew.....	21	0	21
Third.....	Vaughn.....	138	24	162
Third.....	Henry.....	4	0	4
Third.....	Schoew.....	1	0	1
Fourth.....	Plaster.....	107	35	142
Fourth.....	Martin.....	11	0	11
Fourth.....	Henry.....	9	0	9
Fourth.....	Schoew.....	1	0	1
Fourth.....	Connor.....	5	2	7
Fifth.....	Henry.....	135	0	135
Fifth.....	Martin.....	12	0	12
Fifth.....	Jackson.....	3	0	3
Sixth.....	Hill.....	186	18	204
Sixth.....	Jackson.....	34	0	34
Sixth.....	Martin.....	11	0	11
Sixth.....	Henry.....	5	0	5
Sixth.....	Muir.....	1	0	1
Seventh.....	Martin.....	108	7	115
Seventh.....	Jackson.....	24	0	24
Eighth.....	Muir.....	185	17	202
Eighth.....	Martin.....	1	0	1
Ninth.....	Holliday.....	218	33	251
Ninth.....	Martin.....	10	0	10
Ninth.....	Muir.....	2	1	3
Tenth.....	Mitchell.....	253	17	270
Eleventh.....	Nicholson.....	164	35	199
Eleventh.....	Grady.....	38	1	39
Eleventh.....	Martin.....	14	0	14
Eleventh.....	Henry.....	9	0	9
Eleventh.....	Holliday.....	7	0	7
Eleventh.....	Hill.....	11	0	11
Eleventh.....	Muir.....	6	0	6
Twelfth.....	Grady.....	220	12	232
Twelfth.....	Nicholson.....	17	0	17
Twelfth.....	Hill.....	9	0	9
Twelfth.....	Henry.....	1	0	1
Twelfth.....	Martin.....	1	0	1
Totals.....		2,226	298	2,524

*GENERAL SUMMARY OF INSPECTIONS BY COUNTIES JULY 1ST,
1911 TO JUNE 30TH, 1912.*

COUNTY	Inspections	Visits	Totals
Brooke.....	6	0	6
Marion.....	91	39	130
Hancock.....	1	0	1
Marshall.....	15	0	15
Ohio.....	15	0	15
Harrison.....	156	56	212
Lewis.....	3	0	3
Upsbur.....	9	1	10
Barbour.....	36	5	41
Monongalia.....	18	1	19
Preston.....	48	17	65
Taylor.....	41	1	42
Grant.....	6	2	8
Mineral.....	59	10	69
Randolph.....	29	7	36
Tucker.....	39	18	57
Braxton.....	12	0	12
Gilmer.....	5	0	5
Clay.....	4	1	5
Mason.....	9	0	9
Putnam.....	8	0	8
Boone.....	16	6	22
Nicholas.....	5	3	8
Kanawha.....	286	8	294
Greenbrier.....	1	0	1
Fayette.....	366	41	407
Raleigh.....	194	10	204
Monroe.....	124	8	132
McDowell.....	461	51	512
Logan.....	66	8	74
Mingo.....	91	5	96
Lincoln.....	4	0	4
Wayne.....	2	0	2
Totals.....	2,226	298	2,524

*TOTAL NUMBER OF INSPECTIONS AND VISITS MADE BY EACH
INSPECTOR DURING THE YEAR ENDING JUNE 30TH, 1912.*

INSPECTOR	No. of Inspections	No. of Visits	Totals
Karl F. Schoew.....	109	39	148
Frank Parsons.....	146	57	203
L. D. Vaughn.....	143	24	167
W. B. Plaster.....	107	35	142
L. A. Henry.....	170	0	170
B. H. Hill.....	206	18	224
James Martin.....	168	7	175
R. Y. Muir.....	194	18	212
L. B. Holliclay.....	225	33	258
Arthur Mitchell.....	253	17	270
Wm. Nicholson.....	181	35	216
P. A. Grady.....	258	13	271
J. H. Jackson.....	61	0	61
Chas. Connor.....	5	2	7
Totals.....	2,226	298	2,524

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Districts	By Whom Made
BROOKE COUNTY					
La Belle Coal Co.	Lewis No. 1	1	0	5	Henry
Beech Bottom Coal Co.	Beech Bottom No. 1	2	0	5	Henry
Lewis Findley Coal Co.	Locust Grove	1	0	5	Henry
Lewis Findley Coal Co.	Lewis-Findley No. 3	1	0	5	Henry
Lewis-Findley Coal Co.	Lewis-Findley No. 4	1	0	5	Henry
Totals		6	0		
MARION COUNTY					
Consolidation Coal Co.	Consolidation No. 22	2	1	1	Schoew
Consolidation Coal Co.	Consolidation No. 24	2	1	1	Schoew
Consolidation Coal Co.	Consolidation No. 26	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 28	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 34	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 36	4	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 38	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 43	2	4	1	Schoew
Consolidation Coal Co.	Consolidation No. 45	1	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 47	3	1	1	Schoew
Consolidation Coal Co.	Consolidation No. 53	2	1	1	Schoew
Consolidation Coal Co.	Consolidation No. 56	2	3	1	Schoew
Consolidation Coal Co.	Consolidation No. 59	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 63	3	1	1	Schoew
Consolidation Coal Co.	Consolidation No. 67	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 68	2	0	1	Schoew
Consolidation Coal Co.	Consolidation No. 84	3	0	1	Schoew
Jamison Coal & Coke Co.	Jamison No. 7	6	3	1	Schoew
Jamison Coal & Coke Co.	Jamison No. 8	5	6	1	Schoew
Jamison Coal & Coke Co.	Jamison No. 9	2	0	1	Schoew
New Central Coal Co.	Stafford	2	2	1	Schoew
Federal Coal & Coke Co.	Federal	5	0	1	Vaughn
Federal Coal & Coke Co.	Federal	3	11	1	Schoew
Virginia & Pittsburg C. & C. Co.	Morgan	3	0	1	Schoew
Virginia & Pittsburg C. & C. Co.	Kingmont	5	0	1	Schoew
Parker Run Coal & Coke Co.	Parker Run	4	1	1	Schoew
Harry B. Coal Co.	Harry B.	3	1	1	Schoew
Harry B. Coal Co.	Junior	1	0	1	Schoew
Kilarm Coal & Coke Co.	Kilarm Nos. 2-3	2	0	1	Schoew
Pittsburg Steam Coal Co.	Elizabeth	3	0	1	Schoew
Catawba Coal & Coke Co.	Catawba	1	0	1	Schoew
Dakota Coal & Coke Co.	Dakota No. 2	4	1	1	Schoew
Phillips Coal Co.	Phillips	1	0	1	Schoew
Four States Coal & Coke Co.	Annapelle	3	2	1	Schoew
Totals		91	39		
HARRISON COUNTY					
Marquette Coal Co.	Marquette	1	0	5	Henry
Totals		1	0		
MARSHALL COUNTY					
Wheeling Steel & Iron Co.	Benwood	2	0	5	Henry
Monnd City Coal Co.	Monnd Shaft	3	0	5	Henry
Ben Franklin Coal Co.	Panama	3	0	5	Henry
Glendale Coal Co.	Glendale	3	0	5	Henry
Parrs Run Coal Co.	Parrs Run Shaft	2	0	5	Henry
Hitchman Coal Co.	Hitchman	2	0	5	Henry
Totals		15	0		
OHIO COUNTY					
Elm Grove Coal Co.	Elm Grove	3	0	5	Henry
Whittaker Glessner Co.	Carter	4	0	5	Henry
J. S. Creighton & Son	Creighton	2	0	5	Henry
Peter Storch & Son	Storch	1	0	5	Henry
Richland Coal Co.	Richland	1	0	5	Henry
Reymann Brewing Co.	Manchester	2	0	5	Henry
La Belle Iron Works	La Belle Shaft	2	0	5	Henry
Totals		15	0		

**STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.**

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Districts	By Whom Made
■ HARRISON COUNTY					
Consolidation Coal Co.	Consolidation No. 21	3	1	2	Parsons
Consolidation Coal Co.	Consolidation No. 25	4	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 29	0	1	2	Parsons
Consolidation Coal Co.	Consolidation No. 32	1	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 35	0	3	2	Parsond
Consolidation Coal Co.	Consolidation No. 39	2	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 40	2	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 46	0	1	2	Parsons
Consolidation Coal Co.	Consolidation No. 49	1	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 50	2	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 51	0	1	2	Parsons
Consolidation Coal Co.	Consolidation No. 52	1	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 55	2	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 58	2	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 60	2	1	2	Parsons
Consolidation Coal Co.	Consolidation No. 61	1	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 62	2	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 66	1	0	2	Parsons
Consolidation Coal Co.	Consolidation No. 77	1	0	2	Parsons
Virginia-Maryland Coal Corp.	Willard No. 1	1	2	2	Parsons
Virginia-Maryland Coal Corp.	Willard No. 2	0	1	2	Parsons
Central Fairmont Coal Co.	Snake Hill	1	1	2	Parsons
Corona Coal & Coke Co.	Harold	3	2	2	Parsons
Vincent Coal Co.	Grasselli	4	0	2	Parsons
Haywood Coal Mining Co.	Monroe	3	2	2	Parsons
Hutchinson Coal Co.	York	9	8	2	Parsons
Hutchinson Coal Co.	Eric Nos. 1-2	3	6	2	Parsons
Hutchinson Coal Co.	Delta	2	2	2	Parsons
Hutchinson Coal Co.	Byron	4	2	2	Parsons
Hutchinson Coal Co.	McCandlish Nos. 1-2	3	0	2	Parsons
Lamberts Run Coal Co.	Clauson	3	2	2	Parsons
Harrison County Coal Co.	Overholt	2	0	2	Parsons
Blue Ridge Coal Co.	Thompson	7	0	2	Parsons
Hero Coal & Coke Co.	Hero	6	0	2	Parsons
Rosebud Fuel Co.	Rosebud Nos. 1-2	4	1	2	Parsons
National Coal Co.	National	3	0	2	Parsons
Fayette Coal Co.	Fayette	4	2	2	Parsons
Short Line Coal Co.	Girard Nos. 1-2-3	4	1	2	Parsons
Fairmont & Baltimore C. & C. Co.	Fairmore	0	1	2	Parsons
Maderia-Hill-Clark Coal Co.	Waldo No. 1	2	0	2	Parsons
Madeira-Hill-Clark Coal Co.	Goff	0	1	2	Parsons
Madeira-Hill-Clark Coal Co.	Randolph	2	3	2	Parsons
Madeira-Hill-Clark Coal Co.	Randolph	7	0	2	Henry
Madeira-Hill-Clark Coal Co.	Randolph	21	0	2	Schoew
Orr Coal Mining Co.	Miller Nos. 1-2	5	0	2	Parsons
O'Gara Coal Mining Co.	O'Gara	3	0	2	Parsons
Duquesne Coal Co.	Phoenix	1	0	2	Parsons
Harry B. Coal & Coke Co.	Pitcairn	1	3	2	Parsons
Marshall Coal Co.	Marshall	2	1	2	Parsons
Barnard Coal Co.	Burke	2	0	2	Parsons
Clarksburg Gas Coal Co.	McWhorter	1	0	2	Parsons
Marion Gas Coal Co.	Bingamon	3	3	2	Parsons
Daniel Coal Co.	Goeke Nos. 1-2	3	0	2	Parsons
Hygrade Coal Co.	Page	2	1	2	Parsons
The Monongah Fuel Co.	Gillihue	2	0	2	Parsons
Swiger Coal Co.	Gilbert	2	1	2	Parsons
Byron Coal Co.	Keith	1	0	2	Parsons
Byron Coal Co.	Althea	3	2	2	Parsons
Totals		156	56		
LEWIS COUNTY					
Kroger Gas Coal Co.	Polar	3	0	2	Parsons
Total		3	0		
UPSHUR COUNTY					
Upshur Coal Mining Co.	Lorentz	4	0	2	Parsons
Red Rock Fuel Co.	Red Rock Nos. 1-2	1	1	2	Parsons
Buckhannon River Coal Co.	Florence Nos. 1-2	2	0	2	Parsons

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
UPSHUR COUNTY—Con.					
New Comer Coal Co.	New Comer.	2	0	2	Parsons
Totals		9	1		
BARBOUR COUNTY					
H. M. Crawford	Adma	1	0	3	Vaughn
Meriden Coal Mining Co.	Meriden	4	0	3	Vaughn
Tygarts River Coal Co.	Arden	4	0	3	Vaughn
Consolidation Coal Co.	Consolidation No. 30	1	0	3	Vaughn
Consolidation Coal Co.	Consolidation No. 37	7	1	3	Vaughn
Davis Coal & Coke Co.	Dartmore	2	1	3	Vaughn
Davis Coal & Coke Co.	Weaver No. 1	0	1	3	Vaughn
Davis Coal & Coke Co.	Weaver No. 3	2	0	3	Vaughn
Pitts Vein Coal Co.	Flemington No. 4	1	0	3	Vaughn
Century Coal Co.	Century 1-2	4	1	3	Vaughn
Humphries Colliery Co.	Humphries No. 1	3	0	3	Vaughn
Grafton Fuel Co.	Lillian Nos. 1-2	3	1	3	Vaughn
W. H. Foster, Trustee	Sarah No. 1	1	0	3	Vaughn
Davis Colliery Co.	Junior No. 1	1	0	3	Vaughn
Luella Coal & Coke Co.	Luella No. 1	2	0	3	Vaughn
Totals		36	5		
MONONGALIA COUNTY					
Pittsburgh Steam Coal Co.	Opekiska No. 1	2	0	3	Vaughn
Elkins Coal & Coke Co.	Sabraton 4-5	5	0	3	Vaughn
Elkins Coal & Coke Co.	Richard	3	1	3	Vaughn
Elkins Coal & Coke Co.	Elkins No. 3	3	0	3	Vaughn
Connellsville Basin Coal Co.	Rock Forge Nos. 1 & 4	2	0	3	Vaughn
Great Scott Coal Co.	Great Scott No. 1	2	0	3	Vaughn
Antler Coal Co.	Round Bottom No. 1	1	0	3	Vaughn
Totals		18	1		
PRESTON COUNTY					
Austen Coal & Coke Co.	Austen Nos. 1-2	7	0	3	Vaughn
Hamilton Coal & Coke Co.	Newburg Shaft	8	14	3	Vaughn
Hamilton Coal & Coke Co.	Newburg Shaft	1	0	3	Schoew
Hamilton Coal & Coke Co.	Newburg Shaft	2	0	3	Henry
Gorman Coal & Coke Co.	Gorman No. 2	5	0	3	Vaughn
Merchants Coal Co.	Tunnelton No. 2	2	0	3	Vaughn
S. H. Jordan	Corinth No. 2	1	1	3	Vaughn
Kingwood Coal Co.	Howesville Nos. 1-2	4	1	3	Vaughn
Hite Coal & Coke Co.	Dixie No. 1	1	0	3	Vaughn
Elkins Coal & Coke Co.	Bretz No. 2	3	0	3	Vaughn
Elkins Coal & Coke Co.	Masontown No. 6	2	0	3	Vaughn
Elkins Coal & Coke Co.	Kingwood No. 4	1	0	3	Vaughn
Preston County Coal Co.	Cascade Nos. 1-2-3	5	0	3	Vaughn
Borgman Coal Co.	Borgman No. 1	4	1	3	Vaughn
Hierra Coke Co.	Hierra	1	0	3	Vaughn
Irona Coal Co.	Irona No. 1	1	0	3	Vaughn
Totals		45	17		
TAYLOR COUNTY					
Grafton Coal & Coke Co.	Sand Lick No. 1	2	0	3	Vaughn
Pittsvein Coal Co.	Pittsvein	1	0	3	Vaughn
Pittsvein Coal Co.	Flemington No. 4	1	0	3	Vaughn
T. B. Davis Coal Co.	T. B. Davis	3	0	3	Vaughn
McGraw Coal Co.	New York	13	0	3	Vaughn
McGraw Coal Co.	New York	2	0	3	Henry
Rosemont Coal Co.	Rosemont	3	0	3	Vaughn
Maryland Coal Co.	Wendal	5	0	3	Vaughn
Winona Coal & Coke Co.	Winona	2	0	3	Vaughn
Sterling Coal Co.	Cecil	3	0	3	Vaughn
Harrison Coal Co.	Smith	3	0	3	Vaughn
L. B. Bryden Coal Co.	Sunnyside	3	1	3	Vaughn
Totals		41	1		

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
GRANT COUNTY					
Davis Coal & Coke Co.	Henry No. 22	1	2	4	Plaster
Davis Coal & Coke Co.	Henry No. 22	1	0	4	Henry
Davis Coal & Coke Co.	Henry No. 22	1	0	4	Martin
Buffalo Creek Cumberland Coal Co.	Buffalo Creek	3	0	4	Plaster
Totals		6	2		
MINERAL COUNTY					
Davis Coal & Coke Co.	Elkgarden No. 4	1	0	4	Plaster
Davis Coal & Coke Co.	Elkgarden No. 5	1	0	4	Plaster
Davis Coal & Coke Co.	Elkgarden No. 6	2	0	4	Plaster
Davis Coal & Coke Co.	Elkgarden No. 10	1	0	4	Plaster
Davis Coal & Coke Co.	No. 19	2	1	4	Plaster
Davis Coal & Coke Co.	No. 19	1	0	4	Henry
Davis Coal & Coke Co.	No. 19	1	0	4	Martin
Davis Coal & Coke Co.	Ott No. 20	8	5	4	Plaster
Davis Coal & Coke Co.	Ott No. 20	1	0	4	Henry
Davis Coal & Coke Co.	Ott No. 20	1	0	4	Martin
Davis Coal & Coke Co.	Kittanning No. 11	4	0	4	Plaster
Davis Coal & Coke Co.	Walash No. 49	1	0	4	Plaster
Davis Coal & Coke Co.	No. 50	2	0	4	Plaster
Davis Coal & Coke Co.	No. 51	2	0	4	Plaster
Abrams Creek Coal Co.	Oakmont	6	2	4	Plaster
Abrams Creek Coal Co.	Oakmont	1	0	4	Schoew
Abrams Creek Coal Co.	Oakmont	1	0	4	Martin
Mastella Coal & Coke Co.	New Creek	2	0	4	Plaster
Mastella Coal & Coke Co.	Pinnacle & Hampshire Six Ft.	2	0	4	Plaster
Mastella Coal & Coke Co.	Hampshire Four Ft.	3	0	4	Plaster
Mastella Coal & Coke Co.	New Creek	1	0	4	Martin
Mastella Coal & Coke Co.	New Creek	1	0	4	Henry
Mastella Coal & Coke Co.	No. 2	1	0	4	Martin
Mastella Coal & Coke Co.	No. 3	1	0	4	Martin
Mastella Coal & Coke Co.	No. 3	1	0	4	Henry
Hamill Coal Co.	Smith	1	0	4	Plaster
Western Maryland Coal Co.	Walash	5	2	4	Plaster
Western Maryland Coal Co.	Walash	1	0	4	Henry
Western Maryland Coal Co.	Walash	1	0	4	Martin
Western Maryland Coal Co.	Blaine	1	0	4	Plaster
Big Vein Coal Co.	Four Foot	1	0	4	Plaster
Gleason Coal & Coke Co.	Gleason	2	0	4	Plaster
Totals		59	10		
RANDOLPH COUNTY					
Davis Coal & Coke Co.	Weaver Nos. 1-2	5	0	4	Plaster
Davis Coal & Coke Co.	Weaver Nos. 1-2	0	2	4	Connor
Davis Colliery Co.	Sivad No. 2	3	1	4	Plaster
Davis Colliery Co.	Coalton No. 1	2	1	4	Plaster
Davis Colliery Co.	Coalton No. 3	1	0	4	Plaster
Davis Colliery Co.	Harding No. 1	0	1	4	Plaster
Davis Colliery Co.	Harding No. 3	3	0	4	Plaster
Davis Colliery Co.	North Drift	3	0	4	Plaster
Davis Colliery Co.	North Drift	1	0	4	Connor
Davis Colliery Co.	Coaling Station	3	0	4	Plaster
Brady Coal Co.	Klondyke No. 1	2	0	4	Plaster
J. B. Jenkins	Jenkins No. 1	1	0	4	Plaster
J. B. Jenkins	Jenkins	1	0	4	Connor
W. H. Green	Leroy No. 1	1	1	4	Plaster
Rich Mountain Coal Co.	Beech Creek	2	0	4	Plaster
Rich Mountain Coal Co.	Hartridge	1	1	4	Plaster
Totals		29	7		
TUCKER COUNTY					
Cumberland Coal Co.	Douglas No. 1	3	0	4	Plaster
Cumberland Coal Co.	Douglas No. 1	1	0	4	Connor
Cumberland Coal Co.	Douglas No. 2	2	1	4	Plaster
Cumberland Coal Co.	Douglas No. 5	2	0	4	Plaster
Davis Coal & Coke Co.	Thomas No. 23	2	2	4	Plaster
Davis Coal & Coke Co.	Thomas No. 23	1	0	4	Henry
Davis Coal & Coke Co.	Thomas No. 23	1	0	4	Martin

STATEMENT SHOWING NAMES OF MINES. NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Dis- tricts	By Whom Made
TUCKER COUNTY—Cont.					
Davis Coal & Coke Co.	Pendleton Run	1	0	4	Plaster
Davis Coal & Coke Co.	Coketon No. 24	2	0	4	Plaster
Davis Coal & Coke Co.	Coketon No. 25	4	10	4	Plaster
Davis Coal & Coke Co.	Coketon No. 25	1	0	4	Henry
Davis Coal & Coke Co.	Coketon No. 25	1	0	4	Martin
Davis Coal & Coke Co.	Coketon No. 25	1	0	4	Connor
Davis Coal & Coke Co.	Coketon No. 26	1	1	4	Plaster
Davis Coal & Coke Co.	Coketon Nos. 35-26	1	0	4	Plaster
Davis Coal & Coke Co.	Coketon No. 36	1	0	4	Plaster
Davis Coal & Coke Co.	Coketon No. 36	1	0	4	Connor
Davis Coal & Coke Co.	Thomas No. 34	2	2	4	Plaster
Davis Coal & Coke Co.	Thomas No. 34	1	0	4	Martin
Davis Coal & Coke Co.	Thomas No. 34	1	0	4	Henry
Davis Coal & Coke Co.	Coketon No. 37	1	0	4	Plaster
Davis Coal & Coke Co.	Bush No. 38	3	0	4	Plaster
Davis Coal & Coke Co.	Francis	2	0	4	Plaster
Davis Coal & Coke Co.	Thomas No. 28	1	0	4	Plaster
Davis Coal & Coke Co.	Pierce No. 39	1	1	4	Plaster
Davis Coal & Coke Co.	Pierce No. 40	1	1	4	Plaster
Totals		39	18		
BRAXTON COUNTY					
Davis Colliery Co.	Davis No. 7	2	0	5	Henry
Davis Colliery Co.	Davis No. 7	3	0	5	Martin
Davis Colliery Co.	Davis No. 10	3	0	5	Henry
Davis Colliery Co.	Davis No. 10	1	0	5	Martin
Davis Colliery Co.	Copen No. 11	2	0	5	Henry
Davis Colliery Co.	Copen No. 11	1	0	5	Martin
Totals		12	0		
GILMER COUNTY					
Gilmer Fuel Co.	Gilmer	2	0	5	Henry
Gilmer Fuel Co.	Gilmer	3	0	5	Martin
Totals		5	0		
CLAY COUNTY					
Queen Shoals Coal Co.	Burnswell	1	0	5	Henry
Elk Manor Coal Co.	Dorfee	1	0	5	Henry
Elk River Coal & Lumber Co.	Rich Run	2	0	5	Henry
Nicholas Coal & Coke Co.	Carter No. 6	0	1	7	Martin
Totals		4	1		
MASON COUNTY					
Hutchinson Coal Co.	Linden	3	0	5	Henry
Lumberport Coal & Coke Co.	Jackson Furnace	1	0	5	Henry
Hartford Coal Mining Co.	Hartford	3	0	5	Henry
Dixie Coal Co.	Dixie	2	0	5	Henry
Totals		9	0		
PUTNAM COUNTY					
Oak Forest Coal Co.	Oak Forest	1	0	5	Henry
Plymouth Coal Mining Co.	Plymouth	1	0	5	Henry
Plymouth Coal Mining Co.	Manilla	1	0	5	Henry
Otto Marmet Coal Mining Co.	Big Otto No. 1	1	0	5	Henry
Otto Marmet Coal Mining Co.	Big Otto No. 3	1	0	5	Henry
Black Betsy Coal Mining Co.	Black Betsy No. 1	1	0	5	Henry
Black Betsy Coal Mining Co.	Black Betsy No. 2	1	0	5	Henry
Black Betsy Coal Mining Co.	Black Betsy No. 3	1	0	5	Henry
Totals		8	0		
BOONE COUNTY					
Coal River Co.	Ottawa	4	0	6	Hill
Sruce River	No. 1	3	3	6	Hill
Fytonea Block Coal Co.	Block	3	0	6	Hill
The Hickory Ash Coal Co.	Hickory Ash	0	1	6	Hill

*STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.*

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
BOONE COUNTY—Cont.					
Anchor Coal Co.	Anchor	2	0		6 Hill
Webb Coal Mining Co.	Webb	3	0		6 Hill
Seng Creek Coal Co.	Seng Creek	1	2		6 Hill
Totals		16	6		
NICHOLAS COUNTY					
Nicholas Coal & Coke Co.	Arminius	0	1		7 Martin
Nicholas Coal & Coke Co.	Camelia	0	1		7 Martin
Nicholas Coal & Coke Co.	Mt. Carmel	0	1		7 Martin
Saxman Coal & Coke Co.	Saxman No. 1	1	0		2 Parsons
Saxman Coal & Coke Co.	Saxman No. 2	1	0		2 Parsons
Saxman Coal & Coke Co.	Saxman No. 3	1	0		2 Parsons
Pardee & Curtin Lumber Co.	Panther	1	0		2 Parsons
Pardee & Curtin Lumber Co.	Mayo	1	0		2 Parsons
Totals		5	3		
KANAWHA COUNTY					
Queen Shoals Coal Co.	Queen Shoals	1	0		5 Henry
The Morris Fork Coal Co.	Turner Nos. 1-2	2	0		5 Martin
The Morris Fork Coal Co.	Turner Nos. 1-3	2	0		5 Henry
The Pen Mar Mining Co.	Pen Mar	1	0		5 Henry
Clay Coal Co.	Bradley White Ash	2	0		5 Henry
Villa Coal Mining Co.	Villa	1	0		5 Henry
Blue Creek Coal & Land Co.	Wills Hollow Nos. 1-2	2	0		5 Henry
Blue Creek Coal & Land Co.	Blakeley No. 4	1	0		5 Henry
Standard Kanawha Coal Mining Co.	Nos. 1-2	2	0		5 Henry
Williams Coal Co.	Williams	1	0		5 Henry
Virginia Coal Co.	Virginia	2	0		5 Henry
Sunday Creek Co.	No. 101	2	0		5 Henry
Sunday Creek Co.	No. 104	1	0		5 Henry
Sunday Creek Co.	No. 105	1	0		5 Henry
Hughes Creek Coal Co.	Hugheson No. 2	1	0		5 Henry
Hughes Creek Coal Co.	Hugheson No. 3	1	0		5 Henry
Hughes Creek Coal Co.	Hugheson No. 4	2	0		5 Henry
Cannelton Coal Co.	Cannelton No. 1	1	0		5 Henry
Cannelton Coal Co.	Cannelton No. 2	1	0		5 Henry
Campbells Creek Coal Co.	Putney Nos. 1-2	2	0		5 Henry
Kellys Creek Colliery Co.	Nos. 1-3	2	0		5 Henry
Coopers Creek Coal Co.	Peacock	1	0		5 Henry
Wierwick Cannel Coal Co.	Falling Rock	1	0		5 Henry
Marmet Coal Co.	Monarch No. 1	2	0		5 Martin
Marmet Coal Co.	Monarch	3	0		5 Henry
Marmet Coal Co.	Marmet Nos. 1-2	3	0		5 Henry
Marmet Coal Co.	New Butler	3	0		6 Hill
Marmet Coal Co.	Lens Creek	2	0		6 Hill
Marmet Coal Co.	Black Band	2	1		6 Hill
Oleott Coal & Iron Co.	Nos. 1-2	5	0		6 Hill
Pioneer-Peerless Gas Coal Co.	Dry Branch No. 1	1	0		6 Hill
Pioneer-Peerless Gas Coal Co.	Wilton	2	0		6 Hill
Winifrede Coal Co.	Winifrede North	5	0		6 Henry
Winifrede Coal Co.	Winifrede North	7	0		6 Martin
Winifrede Coal Co.	Winifrede North	12	0		6 Hill
Winifrede Coal Co.	Winifrede South	3	0		6 Hill
Winifrede Coal Co.	Winifrede West	3	0		6 Hill
Dry Branch Coal Co.	Coalburg No. 2	2	0		6 Hill
Dry Branch Coal Co.	Coalburg Nos. 4-5	2	0		6 Jackson
Dry Branch Coal Co.	Belmont	2	0		6 Hill
Dry Branch Coal Co.	Belmont	1	0		6 Jackson
Coalburg Colliery Co.	Belmont	1	0		6 Jackson
Coalburg Colliery Co.	Ronda	1	0		6 Jackson
Coalburg Colliery Co.	Ronda	2	1		6 Hill
Wyatt Coal Co.	Berlin	2	0		6 Hill
Wyatt Coal Co.	Horton No. 1	3	0		6 Hill
Wyatt Coal Co.	Horton No. 2	1	1		6 Hill
Wyatt Coal Co.	Oakley	1	0		6 Hill
Lewis Coal & Coke Co.	Peerless	1	0		6 Hill
Lewis Coal & Coke Co.	Belmont	1	0		6 Hill
Lewis Coal & Coke Co.	Lewiston	2	0		6 Hill
Southern Collieries Co.	No. 3	1	0		6 Hill

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
KANAWHA COUNTY—Cont.					
Holley & Stephenson	No. 2	2	0	6 Hill	
Holley & Stephenson	No. 5	2	0	6 Hill	
Wake Forest Mining Co.	Wake Forest	2	0	6 Hill	
Carbon Coal Co.	Low Sulphur	1	0	6 Hill	
Carbon Coal Co.	Carbon Splint	4	0	6 Hill	
Carbon Coal Co.	Carbon Splint	1	0	6 Jackson	
Carbon Coal Co.	Eagle No. 1	1	0	6 Jackson	
Carbon Coal Co.	Carbon No. 1	1	0	6 Jackson	
Carbon Coal Co.	Carbon No. 3	1	0	6 Jackson	
Carbon Coal Co.	South Carbon	2	0	6 Hill	
Carbon Coal Co.	North Carbon	2	0	6 Hill	
Republic Coal Co.	Republic No. 1	2	1	6 Hill	
Republic Coal Co.	Republic No. 2	2	0	6 Hill	
Republic Coal Co.	Republic No. 3	2	0	6 Hill	
Republic Coal Co.	Republic No. 4	1	0	6 Hill	
Republic Coal Co.	Republic No. 5	3	0	6 Hill	
West Virginia Colliery Co.	No. 1	3	1	6 Hill	
West Virginia Colliery Co.	No. 1	1	0	6 Jackson	
West Virginia Colliery Co.	No. 2	2	0	6 Jackson	
West Virginia Colliery Co.	No. 3	2	1	6 Hill	
West Virginia Colliery Co.	No. 4	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Holly	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Belclare	2	1	6 Hill	
Cabin Creek Cons. Coal Co.	Davis	3	0	6 Hill	
Cabin Creek Cons. Coal Co.	Davis	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Cherokee	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Cherokee	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Caledonia	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Caledonia	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Red Warrior	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Red Warrior	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Buckeye	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Buckeye	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Empire	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Empire	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Black Tulip	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Black Tulip	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Keystone	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Aeme	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Aeme	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Shamrock	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Shamrock	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Thistle	3	0	6 Hill	
Cabin Creek Cons. Coal Co.	Raccoon No. 1	1	1	6 Hill	
Cabin Creek Cons. Coal Co.	Raccoon No. 1	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Raccoon No. 2 East	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Raccoon No. 2 East	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Raccoon No. 2 West	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Raccoon No. 2 West	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Rose	1	0	6 Hill	
Cabin Creek Cons. Coal Co.	Rose	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Keyford Nos. 1-2	4	0	6 Hill	
Cabin Creek Cons. Coal Co.	Keyford No. 1	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Quarrier	3	0	6 Hill	
Cabin Creek Cons. Coal Co.	Quarrier	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	United Gas	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	United Gas	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	United Splint	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	United Splint	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Dacota	1	0	6 Jackson	
Cabin Creek Cons. Coal Co.	Ruby	2	0	6 Hill	
Cabin Creek Cons. Coal Co.	Ruby	1	0	6 Jackson	
Paint Creek Collieries Co.	Knickerbocker	2	0	6 Hill	
Paint Creek Collieries Co.	Reynolds	2	0	6 Hill	
Paint Creek Collieries Co.	Seranton	2	0	7 Martin	
Paint Creek Collieries Co.	Paint Creek	3	0	7 Martin	
Paint Creek Collieries Co.	Wcomah	2	0	7 Martin	
Paint Creek Collieries Co.	Banner No. 1	3	0	7 Martin	
Paint Creek Collieries Co.	Banner No. 2	3	0	7 Martin	
Paint Creek Collieries Co.	Detroit	3	0	7 Martin	
Paint Creek Collieries Co.	Morton	2	0	7 Martin	

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Dis- tricts	By Whom Made
KANAWHA COUNTY—Con.					
Paint Creek Collieries Co.	Grose No. 1	2	0	7	Martin
Paint Creek Collieries Co.	Grose No. 2	2	0	7	Martin
Paint Creek Collieries Co.	Greenbrier No. 2	2	0	7	Martin
Paint Creek Collieries Co.	Greenbrier No. 3	1	0	7	Martin
Coalburg-Kanawha Coal Co.	Coalburg "A"	2	0	7	Martin
Coalburg-Kanawha Coal Co.	Coalburg "B"	2	0	7	Martin
Southwestern Splint Fuel Co.	Black Cat	2	0	7	Martin
Southwestern Splint Fuel Co.	Black Cat	1	0	7	Jackson
Belmont Coal Co.	Belmont	1	0	7	Jackson
Belmont Coal Co.	New Coalburg	2	0	7	Martin
Belmont Coal Co.	Cedar Grove	2	0	7	Martin
Belmont Coal Co.	Cedar Grove	1	0	7	Jackson
Crown Hill-Kanawha Coal Co.	Crown Hill	1	0	7	Jackson
Crown Hill-Kanawha Coal Co.	Crown Hill	1	0	7	Martin
Standard Splint & Gas Coal Co.	Standard	2	0	7	Martin
Imperial Colliery Co.	Imperial No. 1	3	0	7	Martin
Imperial Colliery Co.	Imperial No. 2	1	0	7	Martin
Imperial Colliery Co.	Imperial No. 3	3	0	7	Martin
Chesapeake Mining Co.	Chesapeake No. 1	3	0	7	Martin
Chesapeake Mining Co.	Chesapeake No. 1	1	0	7	Jackson
Chesapeake Mining Co.	Chesapeake No. 2	2	0	7	Martin
Chesapeake Mining Co.	Chesapeake No. 3	3	0	7	Martin
Montgomery Coal Co.	Possom Hollow	2	0	7	Martin
Montgomery Coal Co.	Possom Hollow	1	0	7	Jackson
Montgomery Coal Co.	Upper Creek	2	0	7	Jackson
Montgomery Coal Co.	Upper Creek	2	0	7	Martin
Morris Creek Colliery Co.	Morris Creek	1	0	7	Martin
Totals		286	8		
GREENBRIER COUNTY					
Elk Lick Coal Co.	Spruce Knob	1	0	2	Parsons
Totals		1	0		
FAYETTE COUNTY					
Sunday Creek Co.	No. 111	1	0	5	Martin
Sunday Creek Co.	No. 111	1	0	5	Henry
Sunday Creek Co.	No. 112	2	0	5	Henry
Sunday Creek Co.	No. 114	1	0	5	Henry
Sunday Creek Co.	No. 115	2	0	5	Henry
Columbus Iron & Steel Co.	Columbus No. 1	2	0	5	Henry
W. R. Johnson	Oakland No. 1	2	0	5	Henry
W. R. Johnson	Oakland No. 2	2	0	5	Henry
W. R. Johnson	Kanawha Gas No. 1	1	0	5	Henry
W. R. Johnson	Kanawha Gas No. 2	1	0	5	Henry
W. R. Johnson	Crescent No. 5	2	0	7	Martin
W. R. Johnson	Crescent No. 6	2	0	7	Martin
W. R. Johnson	Crescent No. 5	1	0	7	Jackson
W. R. Johnson	Crescent No. 6	1	0	7	Jackson
W. R. Johnson	Crescent No. 7	1	0	7	Jackson
Boomer Coal & Coke Co.	Boomer No. 2 North	2	0	5	Henry
Boomer Coal & Coke Co.	Boomer No. 2 South	2	0	5	Henry
Boomer Coal & Coke Co.	Boomer No. 3	2	0	5	Henry
Boomer Coal & Coke Co.	Boomer No. 4	2	0	5	Henry
Cannelton Coal Co.	No. 2 North	1	0	5	Henry
Cannelton Coal Co.	No. 2 South	1	0	5	Henry
Cannelton Coal Co.	Cannelton No. 2	1	0	5	Henry
Cannelton Coal Co.	Cannelton No. 3	1	0	5	Henry
Paint Creek Colliery Co.	Hickory Camp	2	0	7	Martin
Mecca Coal & Coke Co.	Mecca No. 2 Gas	4	0	7	Martin
Mecca Coal & Coke Co.	Mecca No. 2 Gas	1	0	7	Jackson
Mecca Coal & Coke Co.	Mecca No. 5	2	0	7	Martin
Mecca Coal & Coke Co.	Mecca No. 5	1	0	7	Jackson
Mecca Coal & Coke Co.	Diamond No. 4	3	0	7	Martin
Mecca Coal & Coke Co.	Diamond No. 4	1	0	7	Jackson
Mecca Coal & Coke Co.	Diamond No. 5	3	0	7	Martin
Mecca Coal & Coke Co.	Diamond No. 5	1	0	7	Jackson
Eureka Colliery Co.	Eureka No. 14	2	0	7	Martin
Eureka Colliery Co.	Eureka No. 14	0	1	7	Jackson
St. Clair Colliery Co.	St. Clair	1	0	7	Jackson

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
FAYETTE COUNTY—Con.					
St. Clair Colliery Co.	St. Clair	1	0	7	Martin
M. B. Coal & Coke Co.	Kimberly	2	0	7	Martin
M. B. Coal & Coke Co.	Kimberly	1	0	7	Jackson
M. B. Coal & Coke Co.	Columbia	2	0	7	Martin
M. B. Coal & Coke Co.	Columbia	1	0	7	Jackson
M. B. Coal & Coke Co.	Elk Ridge No. 1	2	0	7	Martin
M. B. Coal & Coke Co.	Elk Ridge No. 1	1	0	7	Jackson
M. B. Coal & Coke Co.	Elk Ridge No. 2	1	0	7	Jackson
M. B. Coal & Coke Co.	Elk Ridge No. 2	1	0	7	Martin
The Mt. Carbon Coal Co. Ltd.	Vulcan & South	1	0	7	Martin
The Mt. Carbon Coal Co. Ltd.	Vulcan	1	0	7	Jackson
Great Kanawha Colliery Co.	Brewster	2	0	7	Martin
Great Kanawha Colliery Co.	Brewster	1	0	7	Jackson
Loup Creek Colliery Co.	Loup Creek No. 2	2	0	7	Martin
Loup Creek Colliery Co.	Loup Creek No. 2	5	0	7	Jackson
Herbert Colliery Co.	Herberton	3	0	7	Martin
Fort Defiance Coal & Coke Co.	Fort Defiance	2	0	7	Martin
Lynchburg Colliery Co.	Vanetta	3	0	7	Martin
Gamora Coal Co.	Gamora	1	0	7	Martin
Dietz Colliery Co.	Wyndal No. 2 Gas	1	0	7	Martin
Deitz Colliery Co.	Wyndal No. 3	1	0	7	Martin
Christian Colliery Co.	No. 1	2	0	7	Martin
Millburn Coal & Coke Co.	No. 1 A. & B.	4	0	7	Martin
Millburn Coal & Coke Co.	No. 1	4	0	7	Martin
Mill Creek Colliery Co.	Mill Creek	6	0	8	Muir
The Gauley Mountain Coal Co.	Nova Scotia & Turkey Creek	3	0	8	Muir
Signal Knob Coal Co.	Signal Knob	3	0	8	Muir
Michigan Coal Co.	Michigan	3	0	8	Muir
Manufacturers & Consumers Coal Co.	Newlyn	3	1	8	Muir
Brown Coal Co.	Brown	4	0	8	Muir
Fayette Coal & Coke Co.	Fayette	3	2	8	Muir
E. G. Blume, Admstr.					
Nuttallburg Collieries Co.	Nuttall	3	0	8	Muir
Nuttallburg Collieries Co.	Nuttall	1	0	8	Martin
Holiday Coal Co.	Keenys Creek	3	0	8	Muir
Ballinger Coal Co.	Ballinger No. 1	4	0	8	Muir
Keenys Creek Colliery Co.	Boone	3	0	8	Muir
Keenys Creek Colliery Co.	Snakeless	4	0	8	Muir
Rothwell Coal Co.	Dulree	4	0	8	Muir
Blume Coal & Coke Co.	Blume	4	1	8	Muir
Lookout Coal & Coke Co.	Lookout	4	0	8	Muir
Buffalo Creek Coal & Coke Co.	Buffalo	3	0	8	Muir
Sewell Colliery Co.	Sugar Camp	3	0	8	Muir
Beury Bros. C. & C. Co.	Echo	4	0	8	Muir
Big Bend Coal Co.	Big Bend	4	0	8	Muir
Stone Cliff Coal & Coke Co.	Stone Cliff	4	0	8	Muir
Beechwood Coal & Coke Co.	Beechwood No. 1	4	0	8	Muir
Beechwood Coal & Coke Co.	Beechwood No. 2	4	0	8	Muir
Alaska Coal & Coke Co.	Alaska	3	0	8	Muir
Ephraim Creek Coal & Coke Co.	Buffalo	4	0	8	Muir
Export Coal Co.	Export	4	0	8	Muir
Laurel Creek Coal Co.	Laurel Creek	3	0	8	Muir
Glendale Colliery Co.	Glendale	3	0	8	Muir
Quinnimont Coal Co.	Big Q and Lick Branch	3	0	8	Muir
Greenwood Coal Co.	Greenwood	3	0	8	Muir
Hemlock Hollow Coal & Coke Co.	Hemlock	3	0	8	Muir
New River & Pocahontas Coal Co.	Layland No. 1	3	0	8	Muir
New River & Pocahontas Coal Co.	Layland No. 2	3	0	8	Muir
New River & Pocahontas Coal Co.	Layland No. 3	3	0	8	Muir
New River & Pocahontas Coal Co.	Minden No. 2	3	1	8	Muir
New River & Pocahontas Coal Co.	Minden No. 3	3	2	8	Muir
New River & Pocahontas Coal Co.	Minden No. 4	3	1	8	Muir
New River & Pocahontas Coal Co.	Minden No. 5	3	1	8	Muir
Low Moor Iron Co. of Va.	Kay Moor No. 1	4	0	8	Muir
Low Moor Iron Co. of Va.	Kay Moor No. 2	2	0	8	Muir
Branch Coal & Coke Co.	Elverton	5	0	8	Muir
South Side Co.	South Side	3	0	8	Muir
Thurmond Coal Co.	Thurmond No. 1	4	0	8	Muir
Thurmond Coal Co.	Thurmond No. 2	0	2	8	Muir
Scotia Coal & Coke Co.	Brooklyn	4	0	8	Muir
Scotia Coal & Coke Co.	Rush Run & Once More	7	4	7	Muir

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Dis- tricts	By Whom Made
FAYETTE COUNTY—Con.					
Scotia Coal & Coke Co.	Red Ash	7	2		S Muir
Glade Coal Co.	Cliff Top No. 3	3	0		S Muir
Glade Coal Co.	Cliff Top No. 1	1	0		S Muir
New River Collieries Co.	Sun Nos. 1-2-3	3	2		9 Holliday
New River Collieries Co.	Sun	0	1		9 Muir
New River Collieries Co.	Sun Nos. 1-2-3	0	0		9 Martin
The Dun Glen Coal Co.	Dun Glen Nos. 3-4	2	0		9 Holliday
Newlyn Coal Co.	Newlyn	1	0		9 Holliday
Meadowfork Coal Co.	Meadowfork	1	0		9 Holliday
The Star Coal & Coke Co.	Star	2	1		9 Holliday
Laura Mining Co.	Laura	3	0		9 Holliday
McKell Coal & Coke Co.	Derryhale	3	3		9 Holliday
McKell Coal & Coke Co.	Kilsyth	2	0		9 Holliday
Harvey Coal & Coke Co.	Harvey Nos. 1-2	3	0		9 Holliday
Prudence Coal Co.	Lyman	2	1		9 Holliday
Prudence Coal Co.	Lones	3	0		9 Holliday
Prudence Coal Co.	Prudence	2	0		9 Holliday
White Oak Fuel Co.	Carhale	5	3		9 Holliday
White Oak Fuel Co.	Oakwood	3	2		9 Holliday
White Oak Fuel Co.	Whipple	2	0		9 Holliday
White Oak Fuel Co.	Wingrove	3	1		9 Holliday
White Oak Fuel Co.	Scarbro	2	3		9 Holliday
Collins Colliery Co.	Collins	2	0		9 Holliday
Nichol Colliery Co.	Nichol	4	1		9 Holliday
Stuart Colliery Co.	Parrel	8	3		9 Holliday
Stuart Colliery Co.	Stuart	4	1		9 Holliday
Stuart Colliery Co.	Stuart	2	0		9 Muir
Stuart Colliery Co.	Stuart	2	0		9 Martin
Stuart Colliery Co.	Lochelly	1	0		9 Holliday
Dun Loup Coal & Coke Co.	Dun Loup Nos. 3-4	3	0		9 Holliday
Dun Loup Coal & Coke Co.	Dun Loup No. 5	1	0		9 Holliday
Dun Loup Coal & Coke Co.	Dun Loup Nos. 2 & 6	4	0		9 Holliday
Macdonald Colliery Co.	Macdonald	2	0		9 Holliday
Sugar Creek Coal & Coke Co.	Sugar Creek No. 1	2	0		9 Holliday
Sugar Creek Coal & Coke Co.	Sugar Creek No. 2	3	1		9 Holliday
Turkey Knob Coal & Coke Co.	Turkey Knob	4	1		9 Holliday
Turkey Knob Coal & Coke Co.	Hickory Branch	3	0		9 Holliday
Mt. Hope Coal & Coke Co.	Baby	3	0		9 Holliday
Totals		366	41		
RALEIGH COUNTY					
Four States Coal & Coke Co.	Dorothy	2	0		6 Hill
Four States Coal & Coke Co.	Dorothy	1	0		6 Jackson
Four States Coal & Coke Co.	Sarita	2	0		6 Hill
Four States Coal & Coke Co.	Sarita	1	0		6 Jackson
Clear Fork Coal Co.	Clear Fork	1	0		6 Hill
Clear Fork Coal Co.	Leevale	1	0		6 Hill
Clear Fork Coal Co.	Leevale	1	0		6 Jackson
Wright Coal & Coke Co.	Wright No. 1	4	0		8 Muir
Wright Coal & Coke Co.	Wright No. 2	4	0		8 Muir
Stonewall Coal & Coke Co.	Terry Nos. 1-2-3-4	5	0		8 Muir
Stonewall Coal & Coke Co.	Stonewall No. 2	3	0		8 Muir
Stonewall Coal & Coke Co.	Stonewall No. 3	2	0		8 Muir
New River Collieries Co.	Eccles Nos. 1 & 3	2	1		9 Holliday
New River Collieries Co.	Eccles Nos. 3-4	9	0		9 Holliday
New River Collieries Co.	Eccles No. 5	4	0		9 Holliday
New River Collieries Co.	Eccles No. 6	3	1		9 Holliday
Lanark Coal Co.	Lanark No. 3	1	0		9 Holliday
Lanark Coal Co.	Lanark No. 4	3	0		9 Holliday
McKell Coal & Coke Co.	Tamroy	2	0		9 Holliday
McKell Coal & Coke Co.	Oswald	2	0		9 Holliday
McKell Coal & Coke Co.	Sydney	2	0		9 Holliday
McKell Coal & Coke Co.	Graham No. 1	2	2		9 Holliday
Piney Mining Co.	Piney Nos. 1-2	4	0		9 Holliday
Piney Mining Co.	Piney Nos. 1-2	1	1		9 Muir
Piney Mining Co.	Piney No. 3	3	0		9 Holliday
Piney Mining Co.	Piney No. 4	2	0		9 Holliday
Piney Mining Co.	Piney No. 4	1	0		9 Muir
Raleigh Coal & Coke Co.	Raleigh No. 1	2	0		9 Holliday
Raleigh Coal & Coke Co.	Raleigh No. 2	1	0		9 Holliday

STATEMENT *SHOWING NAMES OF MINES, NUMBER OF INSPEC-*
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Districts	By Whom Made
RALEIGH COUNTY—Con.					
Raleigh Coal & Coke Co.	Raleigh No. 3	2	1	9	Holliday
Raleigh Coal & Coke Co.	Raleigh No. 3½	2	0	9	Holliday
Raleigh Coal & Coke Co.	Raleigh No. 4	4	0	9	Holliday
Raleigh Coal & Coke Co.	Raleigh No. 5	3	0	9	Holliday
Raleigh Coal & Coke Co.	Raleigh No. 6	3	0	9	Holliday
Blue Jay Coal & Lumber Co.	Blue Jay	2	0	9	Holliday
Sullivan Coal & Coke Co.	Sullivan No. 1 South	5	0	9	Holliday
Sullivan Coal & Coke Co.	Nos. 2-3-4-5 South	1	0	9	Holliday
Sullivan Coal & Coke Co.	Nos. 3-4 North	3	0	9	Holliday
Sullivan Coal & Coke Co.	No. 5 North	4	0	9	Holliday
Woodpeck Coal Co.	Woodpeck	2	0	9	Holliday
Cranberry Fuel Co.	Prosperity	3	0	9	Holliday
Cranberry Fuel Co.	Sprague	3	0	9	Holliday
Cranberry Fuel Co.	Cranberry	2	2	9	Holliday
Mahscott Coal & Coke Co.	Mahscott No. 1	3	1	9	Holliday
Mahscott Coal & Coke Co.	Mahscott No. 2	2	0	9	Holliday
Beckley Coal Co.	Beckley Slope	3	0	9	Holliday
City Coal Co.	Combs	4	0	9	Holliday
Price Hill Fuel Co.	Price Hill	3	0	9	Holliday
Slab Fork Coal Co.	Slab Fork No. 1	2	0	9	Holliday
Slab Fork Coal Co.	Slab Fork No. 2	3	0	9	Holliday
Slab Fork Coal Co.	Slab Fork No. 3	3	0	9	Holliday
Slab Fork Coal Co.	Slab Fork No. 4	1	0	9	Holliday
Slab Fork Coal Co.	Slab Fork No. 5	3	0	9	Holliday
E. E. White Coal Co.	Nos. 1-2-3	5	1	9	Holliday
E. E. White Coal Co.	Nos. 1-3	3	0	10	Mitchell
E. E. White Coal Co.	Nos. 5-6	4	0	10	Mitchell
Gulf Smokeless Coal Co.	Tams Nos. 1-2	5	0	10	Mitchell
Gulf Smokeless Coal Co.	Tams Nos. 1-2	2	0	9	Holliday
Gulf Smokeless Coal Co.	Tams No. 3	2	0	10	Mitchell
Gulf Smokeless Coal Co.	Tams No. 3	1	0	9	Holliday
MacAlpin Coal Co.	MacAlpin Nos. 1-2	1	0	9	Holliday
MacAlpin Coal Co.	MacAlpin Nos. 1-2	3	0	10	Mitchell
Bailey-Wood Coal Co.	Bailey-Wood	1	0	9	Holliday
Bailey-Wood Coal Co.	Bailey-Wood	3	0	10	Mitchell
Pemberton Coal & Coke Co.	Big Stick	1	0	9	Holliday
Pemberton Coal & Coke Co.	Big Stick	3	0	10	Mitchell
Pemberton Coal & Coke Co.	Affinity	3	0	9	Holliday
The Gulf Coal Co.	Gulf	4	0	9	Holliday
The Gulf Coal Co.	Beaver	3	0	9	Holliday
Lynwin Coal Co.	Lynwin	3	0	10	Mitchell
Lynwin Coal Co.	Lynwin	1	0	9	Holliday
Winding Gulf Colliery Co.	Collins Nos. 1-2	2	0	10	Mitchell
Winding Gulf Colliery Co.	Winding Gulf Nos. 1-2	2	0	9	Holliday
Winding Gulf Colliery Co.	Winding Gulf Nos. 1-2	4	0	10	Mitchell
Totals		194	10		
MERCER COUNTY					
Mill Creek Coal & Coke Co.	Coadale	4	0	10	Mitchell
Mill Creek Coal & Coke Co.	East	5	1	10	Mitchell
Mill Creek Coal & Coke Co.	West	10	0	10	Mitchell
Mill Creek Coal & Coke Co.	Tug River	3	0	10	Mitchell
Buckeye Coal & Coke Co.	Buckeye North	4	0	10	Mitchell
Buckeye Coal & Coke Co.	Buckeye South	4	3	10	Mitchell
Booth-Bowen Coal & Coke Co.	Booth-Bowen	4	0	10	Mitchell
Pocahontas Cons. Collieries Co.	Sagamore Nos. 1-2	7	0	10	Mitchell
Pocahontas Cons. Collieries Co.	Elkhorn & Caswell	5	0	10	Mitchell
Pocahontas Cons. Collieries Co.	Hemlock & Caswell	3	2	10	Mitchell
Louisville Coal & Coke Co.	Louisville Nos. 2-3-4	7	0	10	Mitchell
Louisville Coal & Coke Co.	Klondyke	2	0	10	Mitchell
Louisville Coal & Coke Co.	Goodwill	3	0	10	Mitchell
Godfrey Coal Co.	Cephus	3	0	10	Mitchell
Crystal Coal & Coke Co.	Crystal Nos. 1-2-3-4	6	1	10	Mitchell
American Coal Co. of Allegheny Co.	Crane Creek	7	0	10	Mitchell
American Coal Co. of Allegheny Co.	Pinnacle North	4	0	10	Mitchell
American Coal Co. of Allegheny Co.	Pinnacle South	4	0	10	Mitchell
American Coal Co. of Allegheny Co.	Piedmont Nos. 1-2-3	9	0	10	Mitchell
Thomas Coal Co.	Thomas No. 1	4	0	10	Mitchell
Thomas Coal Co.	Thomas No. 2	2	0	10	Mitchell
Pawama Coal & Coke Co.	Pawama Nos. 1-2	4	0	10	Mitchell

*STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.*

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
MERCER COUNTY—Con.					
Weyanoke Coal & Coke Co.	Elihu Nos. 1-2	6	0	10	Mitchell
The Smokeless C. & C. Co.	Smokeless	3	0	10	Mitchell
Hawatha C. & C. Co.	Hawatha	3	0	10	Mitchell
Spring Coal Mining Co.	Spring	3	1	10	Mitchell
Wenonah C. & C. Co.	Wenonah 1-2-3	5	0	10	Mitchell
Total		124	8		
MCDOWELL COUNTY					
Algoma C. & C. Co.	North Fork	3	0	10	Mitchell
Algoma C. & C. Co.	Piney	4	1	10	Mitchell
Elk Ridge Coal & Coke Co.	Elkridge Nos. 1-2	5	1	10	Mitchell
Gilliam Coal & Coke Co.	Gilliam	4	0	10	Mitchell
Indian Ridge Coal & Coke Co.	Indian Ridge	6	0	10	Mitchell
Ronoke Coal & Coke Co.	Ronoke	4	1	10	Mitchell
Arlington Coal & Coke Co.	Arlington	4	0	10	Mitchell
Greenbrier Coal & Coke Co.	Greenbrier	3	0	10	Mitchell
McDowell Coal & Coke Co.	McDowell	4	1	10	Mitchell
Ashland Coal & Coke Co.	Ashland	4	0	10	Mitchell
Ashland Coal & Coke Co.	Monitor	4	0	10	Mitchell
Pocahontas Cons. Coal Co.	Ange	4	0	10	Mitchell
Pocahontas Cons. Coal Co.	Lick Branch	4	0	10	Mitchell
Pocahontas Cons. Coal Co.	Delta	5	1	10	Mitchell
Pocahontas Cons. Coal Co.	Rolph	5	1	10	Mitchell
Pocahontas Cons. Coal Co.	Shamokin	4	0	10	Mitchell
Pocahontas Cons. Coal Co.	Norfolk Nos. 1-2	4	0	10	Mitchell
Pocahontas Cons. Coal Co.	Cherokee	5	0	10	Mitchell
Pocahontas Cons. Coal Co.	Big Four	0	1	10	Mitchell
Zenith Coal & Coke Co.	Zenith	8	1	10	Mitchell
King Coal Co.	King	3	0	10	Mitchell
Elkhorn Coal & Coke Co.	Elkhorn	3	0	10	Mitchell
Lynchburg Coal & Coke Co.	Lynchburg	1	0	10	Mitchell
Lynchburg Coal & Coke Co.	Lynchburg	2	0	11	Nicholson
Upland Coal & Coke Co.	Upland	1	1	10	Mitchell
Upland Coal & Coke Co.	Upland	2	1	11	Nicholson
Houston Coal & Coke Co.	Houston No. 2	1	0	10	Mitchell
Houston Coal & Coke Co.	Houston Nos. 1-2	7	0	11	Nicholson
Crozer Coal & Coke Co.	Crozer	5	0	11	Nicholson
Crozer Coal & Coke Co.	Crozer	2	0	10	Mitchell
Turkey Gap Coal & Coke Co.	Turkey Gap	1	0	10	Mitchell
Turkey Gap Coal & Coke Co.	Turkey Gap	2	0	11	Nicholson
Powhatan Coal & Coke Co.	Powhatan	1	0	10	Mitchell
Powhatan Coal & Coke Co.	Powhatan	3	4	11	Nicholson
Powhatan Coal & Coke Co.	Powhatan	1	0	11	Martin
Powhatan Coal & Coke Co.	Powhatan	3	0	11	Grady
Keystone Coal & Coke Co.	Keystone Nos. 1-2	6	5	11	Nicholson
Keystone Coal & Coke Co.	Keystone	2	0	11	Hill
Pulaski Iron Co.	Pulaski Nos. 1-2-3	7	2	11	Nicholson
Eureka Coal & Coke Co.	Eureka	3	1	11	Nicholson
Shawnee Coal & Coke Co.	Shawnee	3	0	11	Nicholson
Empire Coal & Coke Co.	Empire	2	1	11	Nicholson
Bottom Creek Coal & Coke Co.	Bottom Creek Nos. 1-2	11	2	11	Nicholson
Bottom Creek Coal & Coke Co.	Bottom Creek No. 1	1	0	11	Hill
Bottom Creek Coal & Coke Co.	Bottom Creek No. 1	3	0	11	Henry
Bottom Creek Coal & Coke Co.	Bottom Creek No. 1	3	0	11	Martin
Bottom Creek Coal & Coke Co.	Bottom Creek No. 1	4	0	11	Grady
Peerless Coal & Coke Co.	Peerless	5	3	11	Nicholson
Tidewater Coal & Coke Co.	Tidewater	14	4	11	Nicholson
Tidewater Coal & Coke Co.	Tidewater	2	0	11	Martin
Tidewater Coal & Coke Co.	Tidewater	11	0	11	Grady
King Coal & Coke Co.	King	1	1	11	Nicholson
King Coal & Coke Co.	King	1	0	11	Grady
Cirrus Coal & Coke Co.	Cirrus Nos. 3-4	2	0	11	Hill
Cirrus Coal & Coke Co.	Cirrus No. 2	1	0	11	Grady
Cirrus Coal & Coke Co.	Cirrus Nos. 2-3-4	9	3	11	Nicholson
Virginia Fuel Co.	Virginia	3	0	11	Nicholson
Virginia Fuel Co.	Virginia	1	0	11	Grady
Dixon-Pocahontas Fuel Co.	No. 1	3	1	11	Grady
Dixon-Pocahontas Fuel Co.	North & South	2	0	11	Hill
Dixon-Pocahontas Fuel Co.	Nos. 1-2	7	3	11	Nicholson
Middle States Coal & Coke Co.	Middle States	2	0	11	Nicholson

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
McDOWELL COUNTY—Con.					
Middle States Coal & Coke Co.	Middle States.	1	0	11	Hill
Middle States Coal & Coke Co.	Middle States.	1	0	11	Grady
Jed Coal & Coke Co.	Jed.	13	2	11	Nicholson
Jed Coal & Coke Co.	Jed.	1	0	11	Hill
Jed Coal & Coke Co.	Jed.	6	0	11	Muir
Jed Coal & Coke Co.	Jed.	6	0	11	Henry
Jed Coal & Coke Co.	Jed.	7	0	11	Holliday
Jed Coal & Coke Co.	Jed.	11	0	11	Grady
Jed Coal & Coke Co.	Jed.	8	0	11	Martin
Page Coal & Coke Co.	Page Nos. 1-2-3.	6	0	11	Nicholson
Black Wolf Coal & Coke Co.	Black Wolf.	3	0	11	Nicholson
Central Pocahontas Coal Co.	Central No. 2.	3	1	11	Nicholson
Central Pocahontas Coal Co.	Central No. 2.	1	0	11	Hill
West Virginia Pocahontas Coal Co.	Leckie No. 1.	5	0	11	Nicholson
West Virginia Pocahontas Coal Co.	Leckie No. 1.	1	0	11	Hill
West Virginia Pocahontas Coal Co.	Leckie No. 2.	4	0	11	Nicholson
United States Coal & Coke Co.	No. 2.	2	0	11	Nicholson
United States Coal & Coke Co.	No. 3.	2	1	11	Nicholson
United States Coal & Coke Co.	No. 4.	3	2	11	Nicholson
United States Coal & Coke Co.	No. 5.	3	0	11	Nicholson
United States Coal & Coke Co.	No. 6.	1	0	11	Nicholson
United States Coal & Coke Co.	No. 7.	1	0	11	Nicholson
United States Coal & Coke Co.	No. 8.	1	0	11	Nicholson
United States Coal & Coke Co.	No. 9 East and West.	2	0	11	Nicholson
United States Coal & Coke Co.	No. 10.	1	0	11	Nicholson
United States Coal & Coke Co.	No. 11.	2	0	11	Nicholson
United States Coal & Coke Co.	No. 12.	3	0	11	Nicholson
Pocahontas Smokeless Coal Co.	Pocahontas Smokeless.	2	0	12	Nicholson
Hemphill Colliery Co.	Hemp Hill.	2	0	12	Grady
Hemphill Colliery Co.	Hemp Hill.	1	0	12	Hill
Welch Coal & Coke Co.	Welch.	2	0	12	Grady
Welch Coal & Coke Co.	Welch.	1	0	12	Hill
Oregon Coal & Coke Co.	No. 1.	1	0	12	Grady
Oregon Coal & Coke Co.	No. 2.	2	0	12	Grady
Oregon Coal & Coke Co.	No. 3.	2	0	12	Grady
Standard Pocahontas Coal Co.	Standard.	1	0	12	Hill
Standard Pocahontas Coal Co.	Standard.	1	0	12	Martin
Standard Pocahontas Coal Co.	Standard.	1	0	12	Henry
Standard Pocahontas Coal Co.	Standard.	9	0	12	Nicholson
Standard Pocahontas Coal Co.	Standard.	7	0	12	Grady
Pando Coal Co.	Pando No. 2.	1	0	12	Grady
Superior Pocahontas Coal Co.	Cletus.	2	0	12	Grady
Superior Pocahontas Coal Co.	Helena.	2	0	12	Grady
Superior Pocahontas Coal Co.	Davy Crockett.	2	0	12	Grady
Superior Pocahontas Coal Co.	Blackstone.	2	0	12	Grady
Superior Pocahontas Coal Co.	Blackstone.	1	0	11	Nicholson
J. B. B. Coal Co.	No. 1.	2	0	12	Grady
J. B. B. Coal Co.	No. 2.	1	0	12	Grady
J. B. B. Coal Co.	Nos. 3-4.	2	0	12	Grady
Vaughn Coal & Coke Co.	Vaughn.	1	0	11	Nicholson
Vaughn Coal & Coke Co.	Vaughn.	2	0	11	Grady
Flanagan Coal Co.	No. 1.	2	0	12	Grady
Flanagan Coal Co.	No. 2.	1	0	11	Nicholson
Solvay Collieries Co.	Marytown.	2	1	12	Grady
Solvay Collieries Co.	Marytown.	0	1	11	Nicholson
Solvay Collieries Co.	Big Sandy.	1	0	12	Grady
Davy-Pocahontas Coal Co.	No. 1.	2	0	12	Grady
Davy-Pocahontas Coal Co.	No. 1.	1	0	11	Nicholson
Premier-Pocahontas Coal Co.	No. 1.	2	0	12	Grady
Premier-Pocahontas Coal Co.	No. 2.	2	0	12	Grady
Premier-Pocahontas Coal Co.	No. 3.	2	0	12	Grady
Premier-Pocahontas Coal Co.	No. 1.	1	0	11	Nicholson
Premier-Pocahontas Coal Co.	No. 2.	1	0	11	Nicholson
Premier-Pocahontas Coal Co.	No. 3.	1	0	11	Nicholson
Virginia-Pocahontas Coal Co.	Nos. 11-4.	2	0	12	Grady
Virginia-Pocahontas Coal Co.	Nos. 1-2 East & West.	5	0	12	Grady
Virginia-Pocahontas Coal Co.	No. 3.	2	0	12	Grady
Virginia-Pocahontas Coal Co.	No. 5.	2	0	12	Grady
Virginia-Pocahontas Coal Co.	No. 6.	4	0	12	Grady
Virginia-Pocahontas Coal Co.	Nos. 7-8.	2	0	12	Grady

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
McDOWELL COUNTY—Con.					
Columbus Pocahontas Coal Co.	Columbus Pocahontas	1	0	12	Grady
Columbia Collieries Co.	Columbia	1	0	11	Nicholson
Reynolds Mining Co.	Reynolds	2	0	12	Grady
Hurricane Branch	Hurricane Branch	2	0	12	Grady
Henrietta Pocahontas C. Co.	Henrietta	2	0	12	Grady
Flat Top Mining Co.	Thomas	1	0	11	Nicholson
Flat Top Mining Co.	Thomas	2	0	12	Grady
Dry Fork Colliery Co.	Williams	1	1	12	Grady
Dry Fork Colliery Co.	Williams	1	0	12	Grady
Buckhannon Coal Co.	Buckhannon	1	0	12	Grady
Buckhannon Coal Co.	Buckhannon	1	0	11	Nicholson
Yukon-Pocahontas Coal Co.	War Ridge	1	0	12	Grady
Yukon-Pocahontas Coal Co.	Yukon	2	0	12	Grady
Yukon-Pocahontas Coal Co.	Johns Branch	1	0	12	Grady
War Creek Coal Co.	War Creek	1	0	12	Grady
Excelsior Pocahontas Coal Co.	Excelsior	2	0	12	Grady
Excelsior Pocahontas Coal Co.	Excelsior	1	0	11	Nicholson
Pocahontas Domestic Coal Co.	Scorpion	1	0	11	Nicholson
Pocahontas Domestic Coal Co.	Scorpion	1	0	12	Grady
New River & Pocahontas Cons. C. Co.	No. 1	2	1	12	Grady
New River & Pocahontas Cons. C. Co.	No. 1	1	0	12	Nicholson
New River & Pocahontas Cons. C. Co.	No. 2	3	0	12	Grady
New River & Pocahontas Cons. C. Co.	No. 2	3	0	11	Nicholson
New River & Pocahontas Cons. C. Co.	No. 3	4	0	12	Grady
New River & Pocahontas Cons. C. Co.	No. 3	2	0	12	Nicholson
New River & Pocahontas Cons. C. Co.	No. 4	2	0	12	Grady
New River & Pocahontas Cons. C. Co.	No. 4	1	0	11	Nicholson
Lathrope Coal Co.	Lathrope	1	0	12	Grady
Mohawk Coal & Coke Co.	Mohawk	2	0	12	Grady
Mohawk Coal & Coke Co.	Mohawk	1	0	11	Nicholson
Totals		461	51		
LOGAN COUNTY					
Coal River Coal & Coke Co.	Dobra	3	0	6	Hill
Coal Valley Mining Co.	Sylvia	2	2	6	Hill
Mifflin Coal Co.	Mifflin	0	2	6	Hill
Kohinoor Coal & Coke Co.	Kohinoor	0	1	6	Muir
Black Hawk Colliery Co.	Black Hawk	1	0	6	Hill
Black Hawk Colliery Co.	Black Hawk	1	0	12	Grady
Stone Branch Coal Co.	Stone Branch	1	0	12	Grady
Stone Branch Coal Co.	Stone Branch	1	0	6	Hill
Guyandotte Coal Co.	Kitchen	1	0	6	Hill
Guyandotte Coal Co.	Guyandotte	1	0	12	Grady
E. R. Johnson	No. 1	1	0	12	Grady
E. R. Johnson	No. 1	1	0	6	Hill
E. R. Johnson	No. 2	1	0	12	Grady
E. R. Johnson	No. 2	1	0	6	Hill
H. T. Wilson	Wilson	1	0	6	Hill
H. T. Wilson	Wilson	1	0	12	Grady
Draper Coal & Coke Co.	Draper	1	0	12	Grady
Draper Coal & Coke Co.	Draper	1	0	6	Hill
Fort Branch Coal Corp.	Fort Branch	1	0	6	Hill
Fort Branch Coal Corp.	Fort Branch	1	0	12	Grady
Price Coal Co.	Wanda or Price	1	0	12	Grady
Price Coal Co.	Wanda or Price	1	0	6	Hill
Rex Coal & Coke Co.	Rex	1	0	6	Hill
Rex Coal & Coke Co.	Rex	1	0	12	Grady
Manitoba Coal Co.	Dixie	1	0	6	Hill
Ethel Coal Co.	Ethel No. 1	1	0	12	Grady
Ethel Coal Co.	Ethel No. 1	1	0	6	Hill
Ethel Coal Co.	Ethel No. 2	1	0	6	Hill
Logan Coal Co.	Logan	1	0	6	Hill
Logan Coal Co.	Logan	1	0	12	Grady
Yuma Coal & Coke Co.	Yuma	1	0	12	Grady
Yuma Coal & Coke Co.	Yuma	1	0	6	Hill
Gay Coal & Coke Co.	Gay	1	0	6	Hill
Shamrock Coal Co.	Shamrock	1	0	6	Hill
Shamrock Coal Co.	Shamrock	1	0	12	Grady
Cora Coal & Coke Co.	Cora	1	0	12	Grady
Cora Coal & Coke Co.	Cora	1	0	6	Hill

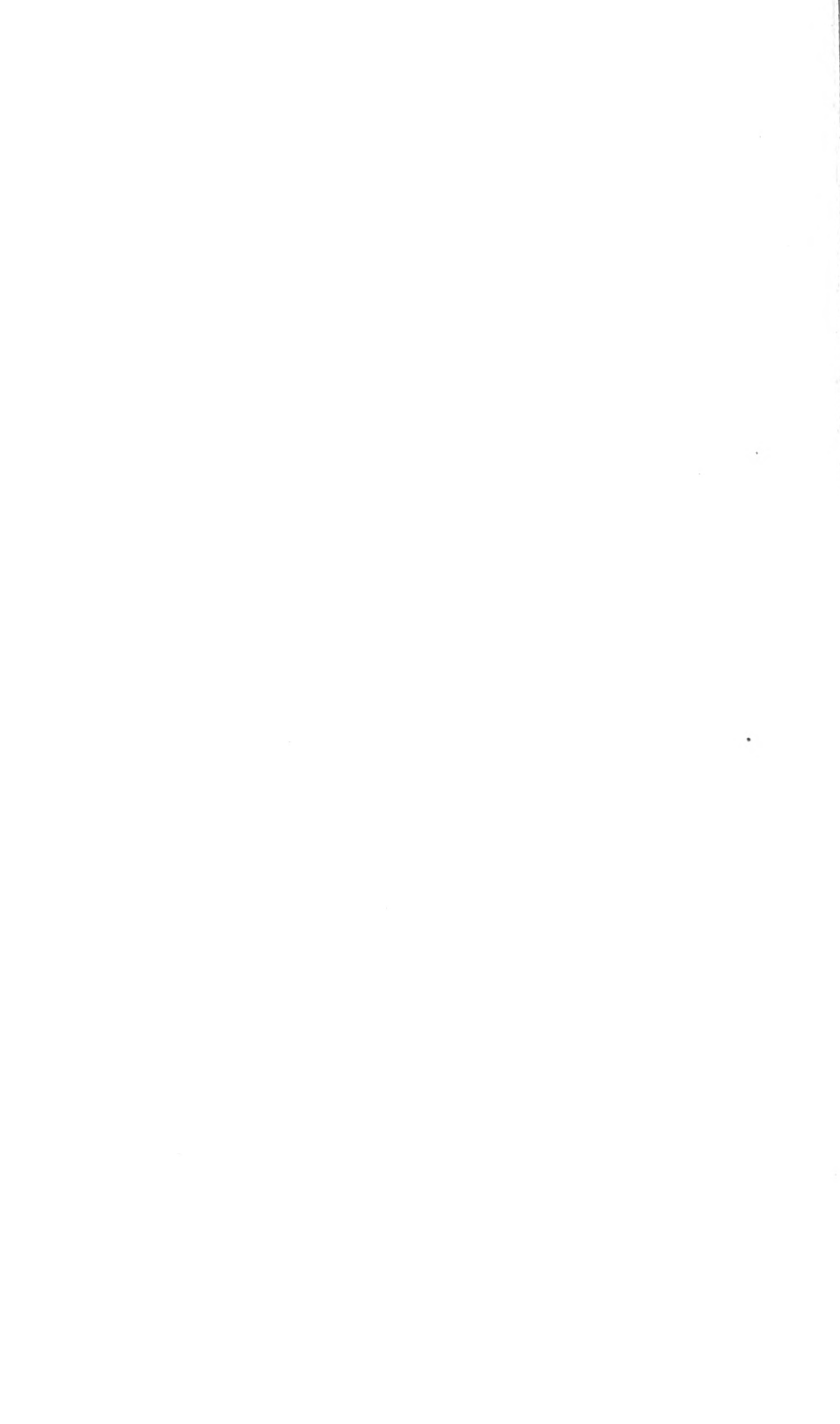
STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspec- tions	Visits	Dis- tricts	By Whom Made
LOGAN COUNTY—Cont.					
Monitor Coal & Coke Co.	Monitor	1	0	12	Grady
Monitor Coal & Coke Co.	Monitor	1	0	6	Hill
Monitor Coal & Coke Co.	Beechwood	1	0	12	Grady
Monitor Coal & Coke Co.	Beechwood	1	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 1	1	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 1	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 2	1	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 2	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 3	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 3	1	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 4	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 4	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 5	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 6	1	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 6	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 7	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 7	7	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 8	1	0	6	Hill
United States Coal & Coke Co.	Island Creek No. 8	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 10	1	0	12	Grady
United States Coal & Coke Co.	Island Creek No. 10	1	0	6	Hill
Araoma Coal Co.	Araoma Nos. 1-2	2	0	6	Hill
Araoma Coal Co.	Araoma Nos. 1-2	0	1	12	Grady
Manbar Coal Co.	Manbar	1	0	6	Martin
Manbar Coal Co.	Manbar	0	1	12	Grady
Ferndale Coal Co.	Earling	1	0	6	Martin
Ferndale Coal Co.	Earling	0	1	12	Grady
McGregor Coal Co.	McGregor	1	0	6	Martin
Paragon Colliery Co.	Yolyn No. 1	1	0	6	Martin
Spruce Bend Coal Co.	Sharpless	1	0	6	Hill
Totals		66	8		
MINGO COUNTY					
J. R. Shanklin Coal Co.	Naugatuck	2	0	12	Grady
Gray Eagle Coal Co.	Gray Eagle	1	0	12	Grady
Chattaroy Colliery Co.	Chattaroy	3	0	12	Grady
Buffalo Collieries Co.	Buffalo	4	0	12	Grady
Howard Colliery Co.	Howard	4	0	12	Grady
Howard Jr. Coal Co.	Howard Jr.	2	0	12	Grady
E. L. Sternberger Coal Co.	Sternberger	2	0	12	Grady
Superior Thacker Coal Co.	Williamson No. 1	2	0	12	Grady
Superior Thacker Coal Co.	Garner	1	0	12	Grady
Williamson Coal & Coke Co.	Williamson No. 3	3	0	12	Grady
Williamson Coal & Coke Co.	Williamson No. 3	1	0	12	Hill
Williamson Coal & Coke Co.	Williamson No. 5	5	0	12	Hill
Crystal Block Coal & Coke Co.	Crystal Block	2	C	12	Grady
White Star Mining Co.	White Star	2	0	12	Grady
Great Bend Coal Co.	Great Bend	2	0	12	Grady
Marvin Coal Co.	No. 1	2	0	12	Grady
Marvin Coal Co.	No. 2	2	0	12	Grady
Red Jacket Cons. Coal & Coke Co.	Grapevine	2	0	12	Grady
Jed Jacket Cons. Coal & Coke Co.	Red Jacket	2	1	12	Grady
Red Jacket Cons. Coal & Coke Co.	Ruthford	1	0	12	Grady
Red Jacket Cons. Coal & Coke Co.	Lick Fork	1	0	12	Grady
Red Jacket Cons. Coal & Coke Co.	Mitchells Branch	2	1	12	Grady
Red Jacket Jr. Coal Co.	Junior Nos. 1-2	4	1	12	Grady
Magnolia Coal & Coke Co.	Magnolia	3	0	12	Grady
Thacker Coal & Coke Co.	Nos. 2-3-6-7-9	9	1	12	Grady
Thacker Coal & Coke Co.	No. 10	2	0	12	Grady
Thacker Coal & Coke Co.	Nos. 11-12-13	3	0	12	Grady
Glen Alum Coal Co.	Glen Alum Nos. 1-2-3	9	1	12	Grady
War Eagle Coal Co.	Pappoose	3	0	12	Grady
War Eagle Coal Co.	Mephisto	3	0	12	Grady
Margaret Mining Co.	Margaret	2	0	12	Grady
Sycamore Coal Co.	Cinderella	3	0	12	Grady
Mary Helen Coal Co.	Mary Helen	2	0	12	Grady
Totals		91	5		
LINCOLN COUNTY					
Johnson Brothers	Brown City	1	0	6	Hill

STATEMENT SHOWING NAMES OF MINES, NUMBER OF INSPEC-
TIONS AND VISITS MADE DURING THE YEAR
ENDING JUNE 30TH, 1912.—Continued.

NAME OF COMPANY	NAME OF MINE	Inspection	Visits	Districts	By Whom Made
LINCOLN COUNTY—Con.					
Branchland Coal Co.	Branchland	1	0	6	Hill
Branchland Coal Co.	Branchland	1	0	12	Grady
Guyan River Coal Co.	Guyan River	1	0	12	Grady
Totals .....	.....	4	0		
WAYNE COUNTY					
East Lynn Coal Co.	East Lynn	1	0	12	Grady
East Lynn Coal Co.	East Lynn	1	0	12	Grady
Totals .....	.....	2	0		

IMPROVEMENTS



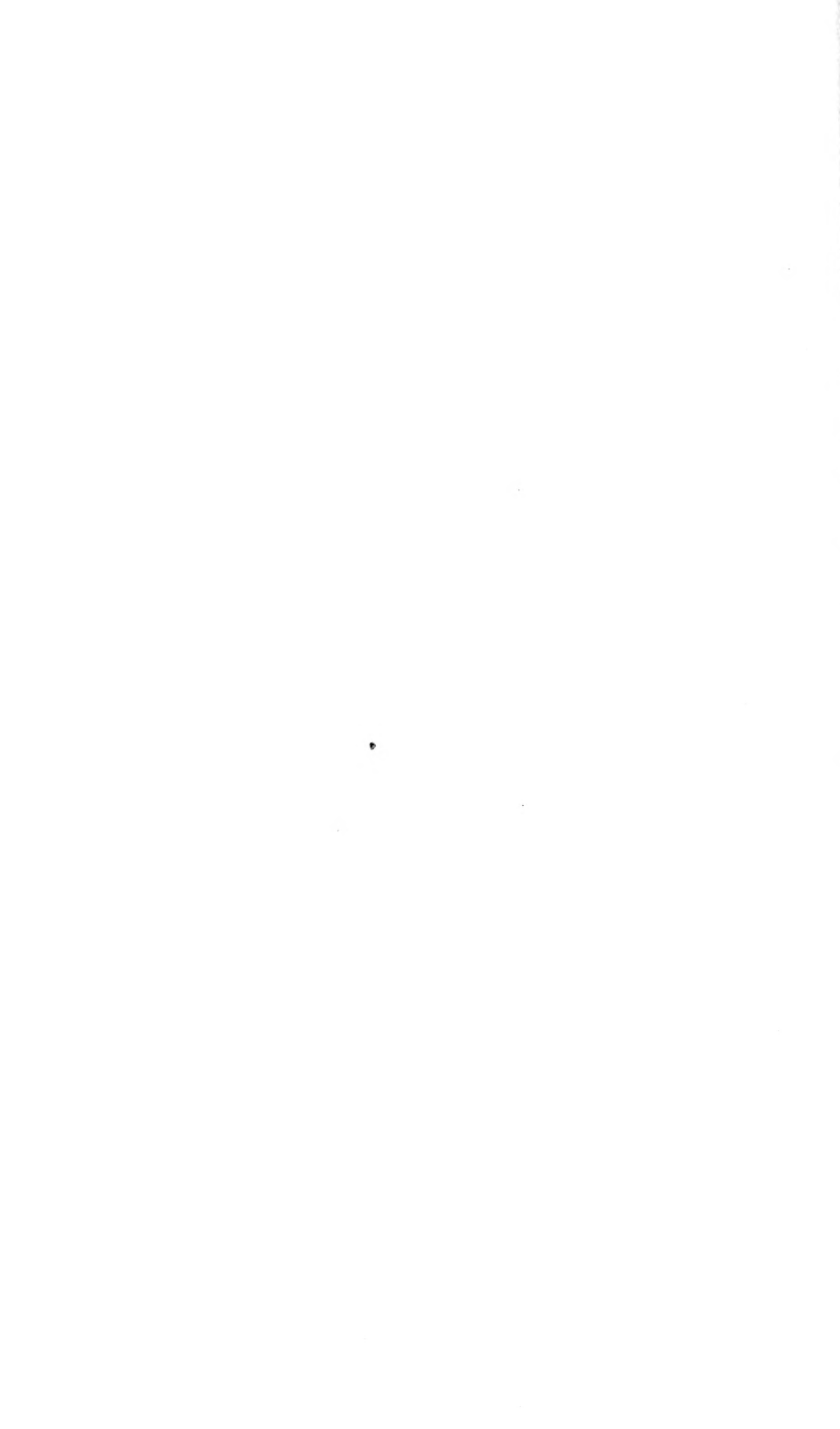
*IMPROVEMENTS REPORTED MADE AT THE MINES DURING THE
YEAR ENDING JUNE 30TH, 1912.*

COUNTY	New Plants	Power Plants	Fans	Furnaces	Tipples	Additional Openings	Total
Brooke.....			2		1		2
Marion.....		4	3		1		8
Marshall.....			1				1
Ohio.....					1		1
Harrison.....	1	5	6		1	1	14
Upshur.....		1			1		2
Monongalia.....					1		1
Preston.....					1		1
Taylor.....					1	1	2
Randolph.....						1	1
Braxton.....		1					1
Gilmer.....	1	1					2
Clay.....		2			1	2	5
Fayette.....		6	4		7	4	21
Kanwha.....			2		2	6	10
Boone.....		1	1		1	2	5
Nicholas.....						1	1
Raleigh.....		4	2	2	5		13
Mercer.....					1	2	3
McDowell.....	3	7	1		2	9	22
Logan.....	7	4	1			1	13
Mingo.....	1	2	1		2	3	9
Totals.....	13	38	24	2	28	33	138

The above table only includes permanent improvements and does not show the number of mine cars, motors, mining machines, store and office buildings, barns, etc. etc.. Special mention is made of this in the letter of transmittal to the Governor which appears in the first page of this report.

STRIKES

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*SUMMARY OF STRIKES AT COAL MINES IN WEST VIRGINIA FOR
THE YEAR ENDING JUNE 30TH, 1912.*

COUNTY	Total No. Mines Reporting Strikes	Total No. Employees Thrown Out of Employ- ment by Strikes	Total Loss Reported to Employees	No. of Companies Reporting Loss to Operators	Total Loss Reported to Operators
Brooke	1	110	-----	-----	-----
Marion	1	400	-----	-----	-----
Marshall	1	30	-----	-----	-----
Mason	2	187	-----	-----	-----
Putnam	2	618	\$ 6,000.00	1	\$ 2,000.00
Clay	1	84	1,000.00	1	150.00
Fayette	24	3,362	18,000.00	6	8,000.00
Kanawha	37	4,061	63,204.00	9	16,893.00
Boone	2	84	2,600.00	1	4,000.00
Totals	71	8,936	\$90,804.00	18	\$31,043.00

STRIKES AT THE COAL MINES IN WEST VIRGINIA FOR THE YEAR ENDING JUNE 30TH, 1912.

NAME OF MINE.	Total Employees Before Strike.		DATE OF		Wore Works (Closed in Consequence.	Length of time (Closed Working Days).	Cause or Object of Strike.	How Was Strike Settled.	Loss to Employees.	Loss to Operators.
	Total Employees for Whom Strike Was Undertaken.	Total Employees thrown out of Employment by Strike.	Beginning.	Termination.						
BROOKE COUNTY.										
W. Va. & Pittsburgh No. 4.	110	110	4-20-12	5-2-12	Yes	4 days.	Misunderstanding.	Explanation.		
MARION COUNTY										
Federal No. 1	400	300	5-1-12	5-8-12	No	None.	Demanded increase.	Refused, returned old rate		
MARSHALL COUNTY										
Parris Run	30	30	5-1-12	5-4-12	Yes	3 days	Demanded increase	Small increase granted		
MASON COUNTY										
Linden	112	112	5-5-12	Pending	Yes	Pending.	Demanded increase	Still pending		
Jackson Furnace	75	75	5-10-12	6-17-12	Yes	32 days	Demanded increase	Increase granted		
PUTNAM COUNTY										
Plymouth & Manila	258	258	4-23-12	5-4-12	Yes	11 days	Demand increase	Granted 1/2 Cleveland scale	6,000.00	2,000.00
Big Otto Nos. 1-2-3	366	360	4-24-12	5-1-12	Yes	6 days	Demand increase	Granted 1/2 Cleveland scale		
CLAY COUNTY										
Rich Run	84	84	6-1-12	6-4-12	Yes	3 days	Not clear	Returned at same conditions	1,000.00	150.00
FAYETTE COUNTY										
Sunday Creek No. 111	203	203	4-2-12	5-2-12	Yes	27 days	Demanded increase	Granted Cleveland scale.		
Sunday Creek No. 112	327	327	4-2-12	5-2-12	Yes	27 days	Demanded increase	Granted Cleveland scale		
Sunday Creek No. 114	254	254	4-2-12	5-2-12	Yes	27 days	Demanded increase	Granted Cleveland scale		
Sunday Creek No. 115	362	362	4-2-12	5-2-12	Yes	27 days	Demanded increase	Granted Cleveland scale		
Columbus No. 1	197	197	4-20-12	5-3-12	Yes	13 days	Demanded increase	Granted Cleveland scale	8,000.00	2,000.00
Boomer No. 2 North & South	550	550	4-1-12	5-4-12	Yes	29 days	Demanded increase	Granted Cleveland scale		
Boomer No. 3	165	165	4-1-12	5-4-12	Yes	29 days	Demanded increase	Granted Cleveland scale		
Boomer No. 4	163	163	4-1-12	5-4-12	Yes	29 days	Demanded increase	Granted Cleveland scale		
Hickory Camp	42	42	4-20-12	6-3-12	Yes	Pending	Recognition of union.	Refused to do so		
Mecca Gas	58	58	4-21-12	5-6-12	Yes	12 days	New Contract	Agreement	5,000.00	2,000.00
Mecca Sulphur	49	49	4-21-12	5-6-12	Yes	12 days	New Contract	Agreement	5,000.00	2,000.00
Diamond No. 14	81	81	4-12-12	5-6-12	Yes	29 days	New contract	Agreement		
Eureka No. 14	70	70	6-1-12	6-18-12	Yes	16 days	General labor trouble	Miners conceding		
St. Clair	75	75	4-18-12	5-6-12	Yes	12 days	General labor trouble	Agreement		
Columbus Block No. 5	32	32	4-20-12	5-6-12	Yes	15 days	General labor trouble	Agreement		
Elk Ridge No. 1	76	70	4-20-12	5-6-12	Yes	15 days	General labor trouble	Agreement		
Elk Ridge No. 2	70	70	4-20-12	5-6-12	Yes	15 days	General labor trouble	Agreement		
Vulcan	75	75	4-20-12	5-6-12	Yes	13 days	General labor trouble	Agreement		

ACCIDENTS

FATAL ACCIDENTS BY CAUSES IN WEST VIRGINIA, 1883 TO 1912, INCLUSIVE.

CAUSES.	Year Ending Dec. 31st.		Jan. 1st, 1887, to June 30, 1888.		Year Ending June 30th.																Percentage										
	1883	1884	1885	1886	1887	1888	1889	1900†	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Total	Percentage									
Fall of Roof, Coal, etc.	17	16	4	27	9	21	22	27	54	49	51	48	47	67	64	61	76	79	86	95	105	99	139	158	144	215	184	207	2181	50.61	
Cars	3	4	2	2	4	6	8	6	12	8	7	12	13	15	20	23	19	23	28	26	38	40	41	64	59	44	64	59	44	529	12.28
Explosions	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	27.27
Other	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.84
Totals	20	23	48	31	13	27	36	36	72	59	83	65	62	87	89	141	130	120	159	140	194	268	356	625	364	320	332	409	4309	100.00	

*No report.

†No report for first mining district.

*FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1883 TO 1892
INCLUSIVE.*

INSIDE

CAUSES.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	Totals.	Per-centage.
Fall of Coal, Slate and Roof	17		16	4	27	9	21	22	27	143	67.14	
Mine Cars	2		1	1	2		1	2	5	14	6.57	
Explosions of Gas			3	39				4	1	47	22.07	
Explosions of Powder, Dust and Blast							2	1	1	4	1.87	
Locomotives												
Miscellaneous					2	2			1	5	2.35	
Totals	19		20	44	31	11	24	29	35	213	100.00	

OUTSIDE

CAUSES.	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	Total.	Per-centage.
Cars	1		3	1					2	1	9	42.86
Locomotives				1			1				2	9.52
Miscellaneous				2			1	2	5		16	47.62
Totals			3	4			2	3	7	1	21	100.00

*The accidents are for the 18 months from January 1st, 1887 to June 30, 1888.

†Accidents reported for 2nd, District only.

*FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1893 TO 1902
INCLUSIVE.*

INSIDE

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Total.	Per-centage.
Falls of Coal, Roof and Slate	54	49	51	48	47	67	64	61	76	79	596	71.12
Mine Cars	5	4	9	4	6	6	7	11	11	13	76	9.07
Explosions of Gas						1		50	10		61	7.28
Explosions of Powder, Dust and Shots	5		15	1	2	1	4	6	19	7	60	7.16
Mules			1						1		2	.24
Mine Machines	1								1		2	.24
Motors								1			1	.12
Locomotives			1		2	1		2	1		7	.84
Miscellaneous	2	2	2	5	3		4	2	2	11	33	3.93
Totals	67	55	79	58	60	76	79	133	121	110	838	100.00

OUTSIDE.

CAUSES.	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	Totals.	Per-centage.
Cars	5	2	3	5	2	9	6	7	9	10	58	82.86
Machinery						1	1				2	2.86
Boiler Explosions								1			1	1.42
Locomotives			1				1				2	2.86
Miscellaneous		2		2		1	2				7	10.00
Totals	5	4	4	7	2	11	10	8	9	10	70	100.00

*FATAL ACCIDENTS INSIDE AND OUTSIDE FROM 1903 TO 1912
INCLUSIVE.*

INSIDE.

CAUSES.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.	Percent- age.
Falls of Coal, Roof and Slate.....	96	95	105	99	13	155	144	215	184	207	1,439	48.66
Mine Cars.....	12	12	18	16	20	28	31	44	37	36	254	8.59
Explosions of Gas.....	24	3	1	4	29	2	3	1	3	18	88	2.97
Explosions of Gas and Dust.....				23	101				23	83	230	7.77
Explosions of Dust, Powder and Shots.....	8	9	38	86	17	375	120	9	1	5	668	22.59
Animals.....	1		1	1		2	3		2		10	.33
Mine Machines.....	1		1	1		2			1	3	9	.33
Motors.....			3	5	4	8	14	14	13	11	72	2.43
Locomotives.....	1	1		1	1			1			5	.17
Miscellaneous.....	4	3	9	14	13	27	25	23	35	29	182	6.16
Totals.....	147	123	176	250	324	599	340	307	299	392	2,957	100.00

OUTSIDE.

CAUSES.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.	Percent- age.
Cars.....	7	11	10	10	18	12	12	4	22	8	114	54.28
Machinery.....		1		1		2	1	1	3	3	12	5.72
Motors.....	2	1			1	1		1		1	7	3.33
Miscellaneous.....	3	4	8	7	13	11	11	7	8	5	77	36.67
Totals.....	12	17	18	18	32	26	24	13	33	17	210	100.00

TABLE SHOWING NUMBER OF PERSONS KILLED INSIDE PER 1,000
INSIDE EMPLOYEES IN COAL MINES IN THE STATES OF
PENNSYLVANIA, ILLINOIS, OHIO AND WEST VIR-
GINIA FOR THE YEAR 1911.

STATE.	Total Number of Inside Employees.	Total Number of Inside Fatal Accidents.	No. of Lives Lost Per 1,000 Inside Employees.
Pennsylvania—Anthracite.....	126,037	615	4.09
Pennsylvania—Bituminous.....	151,786	490	3.23
Illinois.....	70,793	149	2.14
Ohio.....	43,812	101	2.35
West Virginia.....	57,832	299	5.17

YEAR 1912.

West Virginia.....	56,853	409	7.19
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*LIVES LOST INSIDE, NO. OF INSIDE EMPLOYEES AND TONNAGE
MINED FOR EACH LIFE LOST INSIDE FOR YEAR ENDING
JUNE 30TH, 1912.*

COUNTY.	Number of Lives Lost Inside The Mine.	Lives Lost Inside the Mine Per 1000, Em- ployees Inside	Tons of Coal Produced Per Each Life Lost Inside the Mine.	Tons of Coal Produced Per Each Inside Employee.	Total Tons of Coal Produced.	Total Inside Employees.
Brooke	5	9.04	136,058	958	680,192	710
Marion	15	3.77	322,243	1,215	4,833,652	3,976
Marshall	2	2.98	332,196	990	664,393	671
Braxton	2	9.34	101,715	953	203,430	214
Ohio	2	5.39	187,297	1,009	374,595	371
Harrison	14	3.57	323,521	1,158	4,529,344	3,910
Lewis				770	40,057	52
Barbour	4	5.18	189,098	972	756,395	778
Monongalia	2	5.71	191,082	1,091	382,164	350
Preston	2	1.99	420,901	838	841,801	1,004
Randolph	2	3.31	358,316	1,188	716,632	603
Tucker	7	5.22	159,247	832	1,114,732	1,339
Taylor	2	3.07	365,150	1,123	731,300	651
Upshur	1	1.07	37,091	398	37,091	93
Grant	1	1.36	188,907	2,587	188,907	73
Mineral				1,003	655,941	654
Gilmer	1	1.29	57,541	748	57,641	77
Clay	1	6.28	181,963	1,144	181,963	159
Putnam	3	3.53	168,823	596	506,470	849
Mason	1	4.60	139,377	642	139,377	217
Boone	1	3.01	329,179	991	329,179	332
Nicholas				397	46,135	116
Greenbrier				1,137	52,358	46
Kanawha	24	4.22	233,438	986	5,602,522	5,681
Fayette	50	4.93	176,241	869	8,812,058	10,132
Raleigh	31	7.10	147,799	1,050	4,581,776	4,362
Mercer	23	9.08	121,037	1,099	2,783,866	2,531
McDowell	174	13.63	79,126	1,079	13,768,077	12,758
Logan	10	4.25	324,303	1,254	3,243,033	2,585
Mingo	11	4.58	215,869	1,088	2,374,563	2,181
Wayne				943	48,130	51
For the State	392	6.89	155,994	1,048	59,281,774	56,853

TABLE SHOWING THE NUMBER KILLED INSIDE THE MINES BY FALLS PER EACH 1,000 PERSONS EMPLOYED INSIDE OF THE MINES IN THE STATES OF OHIO, ILLINOIS, PENNSYLVANIA AND WEST VIRGINIA FROM 1897 TO 1911 INCLUSIVE.

YEARS.	RATIO KILLED BY FALLS OF COAL, SLATE AND ROOF PER 1,000 INSIDE EMPLOYEES.				
	Ohio	Illinois	Pennsylvania		West Virginia
			Bituminous Mines	Anthracite Mines	
1897.....	1.07	1.52	1.50	2.13	2.75
1898.....	1.47	1.36	1.92	2.04	3.90
1899.....	1.52	1.54	2.28	2.45	3.26
1900.....	1.52	1.44	1.79	1.86	2.79
1901.....	1.43	1.43	1.95	2.29	2.95
1902.....	1.59	1.42	2.02	1.18	2.90
1903.....	2.13	1.65	1.92	2.05	3.15
1904.....	2.26	1.32	1.83	2.16	2.61
1905.....	1.98	1.49	2.19	2.53	2.62
1906.....	1.91	1.49	2.15	1.86	2.42
1907.....	2.25	1.23	2.04	2.37	3.15
1908.....	1.43	1.41	1.71	2.28	3.16
1909.....	1.64	1.27	1.91	2.06	2.84
1910.....	2.35	.95	1.83	2.09	3.93
1911.....	2.77	1.13	2.02	2.00	3.18
Averages.....	1.82	1.37	1.94	2.08	3.02
Average 1912.....					3.64

DETAILS OF LIVES LOST PER TON OF PRODUCTION IN WEST VIRGINIA
For Year 1912

Number of Mines where fatal accidents occurred.....	220
Number of Lives Lost.....	409
Number of mines where fatal accidents occurred inside.....	203
Number of lives lost inside.....	392
Number of men employed inside mines, where fatal accidents occurred inside.....	28,763
Number of tons of coal produced where fatal accidents occurred inside.....	35,370,160
Tons of coal produced per each life lost where fatal accidents occurred inside.....	90,230
Tons of coal produced per each life lost in State, all mines and tonnage included.....	145,676

TABLE SHOWING THE NATIONALITIES OF PERSONS KILLED, AND CAUSES OF FATAL ACCIDENTS AT THE MINES FOR THE YEAR 1911-1912.

NATIONALITIES.	1911														1912																							
	CAUSES														CAUSES																							
	INSIDE							OUTSIDE							INSIDE							OUTSIDE																
	Falls of Coal, roof & slate.	Mine Cages.	Explosion of gas (Natural).	Explosion of dynamite powder & shots.	Explosion of dust.	Electricity.	Animals.	Electric motor.	Total No. Killed (Inside)	Cars.	Machinery.	Mine cages.	Miscellaneous.	Fall down shaft.	Electricity.	Total No. Killed (Outside)	Total No. Killed (Inside & Outside)	Fall of coal, slate & roof.	Mine cars.	Explosion of gas and dust.	Explosion of gas.	Explosion of powder (m. t. & shots).	Electricity.	Mining machines.	(Compressed air motors.	Electric motors.	Mine cages.	Miscellaneous.	Total No. Killed (Outside)	Total No. Killed (Inside & Outside)								
American.....	67	19	—	—	—	—	—	2	3	4	119	5	3	3	3	14	133	70	13	17	4	1	9	1	1	1	1	5	124	3	1	3	1	3	1	2	12	136
Austrian.....	8	—	—	—	—	—	—	—	—	—	10	—	—	—	—	—	—	2	2	—	—	—	—	—	—	—	—	1	3	—	—	—	—	—	—	—	5	
Bohemian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
Croatian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2		
English.....	5	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3		
German.....	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2		
Greek.....	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2		
Hungarian.....	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4		
Italian.....	30	7	3	—	—	—	—	2	2	43	1	2	—	—	—	4	19	36	4	18	1	1	1	1	1	1	3	38	65	69	1	2	1	4	69	4		
Lithuanian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
Latvian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
Macedonian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
Negro.....	39	11	—	—	—	—	—	1	3	57	1	2	1	2	5	62	26	12	18	6	1	5	1	5	3	3	71	255	25	3	1	1	1	72	1			
Polish.....	11	3	—	—	—	—	—	—	—	—	14	2	1	2	13	16	16	1	3	2	—	2	3	1	3	3	35	3	3	—	—	—	—	25				
Romanian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19			
Russian.....	2	3	—	—	—	—	—	2	7	14	16	1	4	2	2	9	10	1	5	3	—	—	—	—	—	—	19	3	3	—	—	—	—	3	13			
Scotch.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9	1	1	—	1	—	—	—	—	3	3	—	—	—	—	—	—	1			
Slavish.....	5	—	—	—	—	—	—	—	—	—	16	9	—	—	—	16	9	1	1	1	—	—	—	—	—	—	3	3	—	—	—	—	—	—	3			
Spanish.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	13			
Syrian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1			
Servian.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1			
French.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1			
Scotch-American.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1			
Unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
Totals.....	184	50	3	123	13	2	13	10	299	10	4	6	—	5	8	33	332	207	36	83	18	5	22	3	—	1	11	1	5	392	3	1	1	8	1	3	17	499

NATIONALITIES OF PERSONS KILLED AND INJURED, 1912.

NATIONALITIES	Fatal	Non-Fatal	Total
American.....	136	376	512
Austrian.....	5	16	21
Bohemian.....	1	1	2
Croatian.....	2	2	4
English.....	5	8	13
German.....	2	5	7
Greek.....	4	6	10
Horwatt.....	3	2	5
Hungarian.....	38	47	85
Italian.....	69	109	178
Lithuanian.....	4	12	16
Litvitch.....	1	---	1
Negro.....	72	153	225
Polish.....	25	40	65
Roumanian.....	3	1	4
Russian.....	19	19	38
Slavish.....	13	35	48
Spanish.....	1	2	3
Welsh.....	---	2	2
Servian.....	1	1	2
French.....	1	1	2
Scotch-American.....	1	---	1
Scotch.....	3	2	5
Unknown.....	---	---	---
Total.....	409	840	1,249

AGES OF PERSONS KILLED AND INJURED, 1912.

AGES	Fatal	Non-Fatal	Total
14 years or younger.....	1	3	4
15 years or younger.....	3	13	16
16 years or younger.....	6	27	33
17 years or younger.....	16	26	42
18 years or younger.....	12	30	42
19 years or younger.....	15	23	38
20 to 25 years, including 25.....	113	240	353
25 to 30 years, including 30.....	91	149	240
30 to 35 years, including 35.....	55	116	171
35 to 40 years, including 40.....	43	101	144
40 to 45 years, including 45.....	14	55	69
45 to 50 years, including 50.....	22	33	55
50 to 55 years, including 55.....	11	12	23
55 to 60 years, including 60.....	5	4	9
60 to 65 years, including 65.....	1	7	8
Unknown.....	1	1	2
Totals.....	409	840	1,249

TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED AT THE WEST VIRGINIA MINES 1901 to 1905
INCLUSIVE.

LENGTH OF EXPERIENCE	1901		1902		1903		1904		1905			
	Fatal	Non-Fatal	Total	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals
3 months or less.....	18	30	48	19	25	44	26	44	70	15	28	43
Over 3 months and including 6 months.....	6	13	19	9	8	17	5	21	26	8	15	23
Over 6 months and including 12 months.....	13	20	33	13	30	43	21	31	52	15	25	40
2 years.....	8	16	24	14	26	40	15	30	45	14	33	47
3 years.....	4	6	10	6	12	18	4	14	18	8	14	22
4 years.....	4	7	11	8	10	18	6	9	15	6	9	15
5 years.....	2	9	11	6	10	16	12	15	27	9	13	22
6 years.....	3	10	13	2	6	8	3	3	6	9	9	18
7 years.....	2	2	4	1	6	7	3	5	8	6	4	10
8 years.....	4	5	9	3	4	7	6	4	10	11	5	16
9 years.....	3	3	6	1	4	5	2	2	4	3	3	6
10 years.....	6	1	7	7	20	27	5	9	14	2	4	6
Over 10 years and including 15 years.....	7	8	15	5	10	15	10	5	15	5	6	11
Over 15 years and including 20 years.....	3	8	11	2	5	7	5	4	9	3	12	15
Over 20 years and including 25 years.....	1	1	2	1	2	3	2	2	4	2	3	5
Over 25 years and including 30 years.....	1	2	3	1	1	2	2	2	4	2	2	4
Over 30 years and including 35 years.....	1	1	2	1	1	2	2	2	4	2	2	4
Over 35 years and including 40 years.....	1	1	2	1	1	2	2	1	3	1	1	2
Over 40 years and including 45 years.....	1	1	2	1	5	6	1	1	2	1	1	2
Over 45 years and including 50 years.....	1	1	2	2	5	7	10	11	21	8	6	14
Several years.....	6	5	11	2	5	7	7	10	17	1	1	2
Many years.....	3	2	5	2	6	8	1	3	4	4	2	6
Always.....	39	28	67	16	48	64	23	22	45	27	25	52
Unknown.....												
Totals.....	130	180	310	120	239	359	159	223	382	140	211	351

TERMS OF EXPERIENCE OF PERSONS KILLED AND INJURED *IN THE WEST VIRGINIA MINES 1906 TO 1912,*
INCLUSIVE.

LENGTH OF EXPERIENCE.	1906			1907			1908			1909			1910			1911			1912			Sum Totals
	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	Fatal	Non-Fatal	Totals	
3 months or less.....	24	27	51	20	48	68	33	91	124	22	63	85	15	32	47	18	53	71	23	43	66	777
Over 3 months and including 6 months.....	9	20	29	16	22	38	54	45	99	14	43	57	14	23	37	9	31	40	9	31	40	416
Over 6 months and including 12 months.....	20	35	55	23	63	86	108	106	214	35	108	143	10	51	61	13	114	127	4	109	113	1,005
2 years.....	36	24	60	59	20	79	68	70	138	56	161	217	36	104	140	26	74	100	47	113	160	1,089
3 years.....	26	32	58	17	39	56	47	54	101	36	88	124	23	58	81	30	77	107	50	74	124	763
4 years.....	16	19	35	14	34	48	37	36	73	15	44	59	20	47	67	22	57	79	49	60	109	552
5 years.....	14	17	31	14	20	34	66	46	112	26	60	86	20	53	73	36	49	85	35	114	149	672
6 years.....	11	6	17	12	19	31	40	27	67	14	34	48	15	37	52	26	42	68	34	34	68	405
7 years.....	3	4	7	3	9	12	9	12	21	12	23	35	8	17	25	9	17	26	32	32	54	210
8 years.....	11	8	19	1	8	9	28	27	65	9	23	32	7	24	31	6	20	26	14	27	41	264
9 years.....	1	2	3	1	1	2	3	4	7	5	13	28	2	10	12	7	13	20	12	15	27	99
10 years.....	10	13	23	14	11	25	32	35	67	17	49	66	16	49	65	29	51	80	7	64	72	475
Over 10 years and including 15 years.....	11	8	19	7	17	24	19	40	59	27	54	81	22	60	82	13	52	65	7	50	57	526
Over 15 years and including 20 years.....	7	9	16	10	9	19	10	19	29	13	38	51	23	39	62	29	33	62	8	43	51	314
Over 20 years and including 25 years.....	2	4	6	4	6	10	1	7	8	6	15	21	4	18	22	9	19	28	11	11	22	145
Over 25 years and including 30 years.....	1	2	3	2	3	5	7	7	14	4	5	9	10	9	19	1	11	12	3	5	8	90
Over 30 years and including 35 years.....	1	1	2	2	2	4	4	4	8	2	3	5	1	1	2	4	4	8	2	2	4	29
Over 35 years and including 40 years.....	2	1	3	3	1	4	1	1	2	2	3	5	2	1	3	4	8	12	1	3	4	41
Over 40 years and including 45 years.....	1	1	2	1	1	2	1	1	2	2	2	4	1	2	3	1	4	5	1	1	2	6
Over 45 years and including 50 years.....	12	10	22	15	15	30	11	33	44	1	1	2	10	10	20	10	10	20	52	52	104	155
Several years.....	3	2	5	1	3	4	4	11	15	1	1	2	10	10	20	10	10	20	52	52	104	155
Many years.....	3	2	5	1	3	4	4	11	15	1	1	2	10	10	20	10	10	20	52	52	104	155
Always.....	50	52	102	174	62	236	44	166	210	51	205	256	72	307	379	33	130	163	15	15	30	1,636
Unknown.....	298	299	597	356	448	804	625	842	1,467	364	1,032	1,396	320	942	1,262	332	819	1,151	409	840	1,249	9,742
Totals.....	298	299	597	356	448	804	625	842	1,467	364	1,032	1,396	320	942	1,262	332	819	1,151	409	840	1,249	9,742

TABLE SHOWING THE CAUSES OF FATAL AND NON-FATAL ACCIDENTS AND THE NUMBER AND PERCENTAGE BY EACH CAUSE FOR THE YEAR ENDING JUNE 30TH, 1912.

CAUSES.	Fatal	Non-Fatal	Total	Per-centage
Fall of Slate and Stone.....	166	274	440	34.42
Mine Cars.....	44	244	288	23.85
Mining Machines.....	6	39	45	3.60
Fall of Coal.....	28	91	119	9.54
Electricity.....	23	5	28	2.24
Electric Motors.....	12	36	48	3.93
Explosion of Powder.....	1	27	28	2.24
Fell down Shaft.....	1	-	1	.08
Mine Cage.....	1	1	2	.16
Gas Explosion.....	18	6	24	1.83
Flying Coal.....	-	18	18	1.44
Explosion of Dynamite Caps.....	2	24	26	2.08
Locomotives.....	1	-	1	.08
Scalded.....	-	2	2	.16
Premature Explosions.....	2	5	7	.56
Blown-Out Shot.....	-	1	1	.08
Animals.....	-	7	7	.56
Railroad Cars.....	3	2	5	.43
Explosion of Gas and Dust.....	83	-	83	6.65
Miscellaneous (Inside).....	5	22	27	2.16
Miscellaneous (Outside).....	-	17	17	1.36
Fall of Coal and Slate.....	13	19	32	2.55
Totals.....	409	840	1,249	100.00

TABLE SHOWING THE NUMBER OF FATAL AND NON-FATAL ACCIDENTS, INSIDE AND OUTSIDE, AND NUMBER OF PERSONS KILLED AND INJURED, 1912.

FATAL ACCIDENTS.

	Number of Accidents	Number of Persons Killed
Inside.....	280	302
Outside.....	17	17
Totals.....	297	409

NON-FATAL ACCIDENTS

	Number of Accidents	Number of Persons Injured
Inside.....	718	759
Outside.....	76	81
Totals.....	794	840

*LIST OF ACCIDENTS IN WHICH MORE THAN ONE PERSON WAS
KILLED, 1912.*

COUNTY	NAME OF MINE	Date of Accident	Number of Persons Killed	CAUSES.
Kanawha	Banner	Mar. 19, 1912.	2	Slate Fall
Raleigh	Raleigh No. 6	Jan. 13, 1912	2	Slate Fall.
Raleigh	Dorothy	May 21, 1912	2	Slate Fall.
Mercer	Spring	Aug. 28, 1911	2	Slate Fall.
McDowell	Pulaski No. 2	Aug. 21, 1911.	2	Slate Fall.
McDowell	Bottom Creek	Nov. 18, 1911.	18	Gas Explosion.
McDowell	Powhatan	Dec. 2, 1911	2	Fall of Roof.
McDowell	McDowell	Jan. 4, 1912	2	Fall of Roof.
McDowell	Va.-Poca, No. 3	Mar. 1, 1912	2	Fall of Roof.
McDowell	Big Sandy	Mar. 11, 1912	2	Fall of Roof
McDowell	Jed	Mar. 26, 1912	83	Gas & Dust Explosion
McDowell	Delta	May 29, 1912	2	Slate Fall.
McDowell	Pulaski No. 2	June 13, 1912	2	Slate Fall.
McDowell	Glen Alum	Dec. 29, 1911	2	Mine car wreck.
McDowell	Glen Alum	Feb. 22, 1912	2	Slate Fall.
Total			127	

*FATAL AND NON-FATAL ACCIDENTS TABULATED BY COUNTIES
IN WHICH THEY OCCURRED, 1912.*

COUNTY	Fatal	Non-Fatal	Totals
Brooke	5	2	7
Marion	15	66	81
Marshall	2	4	6
Braxton	2	4	6
Ohio	2	3	5
Harrison	14	36	50
Lewis	-	1	1
Barbour	4	18	22
Monongalia	2	11	13
Preston	3	13	16
Randolph	2	3	5
Tucker	7	18	25
Taylor	2	14	16
Upshur	1	-	1
Grant	1	8	9
Mineral	-	10	10
Gilmer	1	-	1
Clay	1	-	1
Putnam	3	5	8
Mason	1	7	8
Boone	1	1	2
Nicholas	-	2	2
Greenbrier	-	1	1
Kanawha	24	53	77
Fayette	50	140	190
Raleigh	31	75	106
Mercer	23	62	85
McDowell	191	227	418
Logan	10	22	32
Mingo	11	34	45
Totals	409	840	1,249

*FATAL AND NON-FATAL ACCIDENTS TABULATED ACCORDING TO
DISTRICTS IN WHICH THEY OCCURRED, 1912.*

DISTRICT.	Fatal	Non-Fatal	Totals
First.....	15	66	81
Second.....	15	40	55
Third.....	11	56	67
Fourth.....	10	39	49
Fifth.....	25	60	85
Sixth.....	29	65	94
Seventh.....	11	21	32
Eighth.....	21	54	75
Ninth.....	48	112	160
Tenth.....	55	133	188
Eleventh.....	136	131	267
Twelfth.....	33	63	96
Totals.....	409	840	1,249

*“RELATION OF THE USE OF POWDER TO MINE ACCIDENTS.”
STATEMENT OF POWDER ACCIDENTS.*

WEST VIRGINIA 1897-1912.

YEARS	TONS.	Total Killed and Injured	Total Killed and; Injured Powder Accidents	Per Cent. Killed and Injured by Powder Accident, of Total Killed and Injured	Tons per Powder Accident
1897-1900.....	62,837,138	1,039	34	3.27	1,847,857
1901-1904.....	93,373,487	1,402	144	10.27	648,427
1905-1908.....	148,088,875	3,282	773	23.55	191,577
1909.....	41,513,766	1,396	46	3.29	902,473
1910.....	52,723,708	1,262	57	4.52	924,977
1911.....	54,033,186	1,151	34	2.95	1,589,211
1912.....	59,581,774	1,249	28	2.24	2,127,920

“ILLINOIS.”

1888-1892.....	69,614,489	1,678	119	7.09	584,995
1893-1897.....	94,658,388	3,081	233	7.56	406,259
1898-1902.....	123,844,242	2,925	219	7.48	565,499
1903-1907.....	193,332,873	3,334	384	11.48	508,679
1908.....	42,845,628	1,002	65	6.48	659,009
1909.....	49,163,710	1,107	67	6.05	733,787
1910.....	48,717,853	1,148	33	2.87	1,476,298
1911.....	50,165,099	866	8	9.23	6,270,637

“OHIO.”

1888-1892.....	61,257,285	1,216	85	6.82	720,674
1893-1897.....	65,783,625	1,335	108	7.52	609,108
1898-1902.....	93,644,275	2,201	105	1.77	891,850
1903-1907.....	131,571,182	3,317	166	5.00	810,669
1908.....	26,287,800	708	27	3.81	973,622
1909.....	27,755,042	808	20	2.48	1,387,752
1910.....	34,424,951	833	23	2.76	1,496,737
1911.....	30,312,039	688	22	3.19	1,379,813

FATAL ACCIDENTS

FATAL ACCIDENTS FOR YEAR ENDING JUNE 30TH, 1912.

No.	NAME OF MINE	Name of Person Killed	Date of		Nationality	Ex- perience	Age	Occupation	Married or Single	Widow	Children	Total No. Dependents	Amount Insurance	How Killed	Inquest	Inside or Outside of
			Injured	Death												
BROOKE COUNTY.																
1	La Belle Shaft	Kojo Strika or John Street	11-9-11	9-9-11	Austrian	3 Yrs.	35	Trackman	M	Yes	4	5		Fall of Stone	Yes	I
2	Beech Bottom	Henry George	12-1-11	12-1-11	German	12 Yrs.	25	Miner	M	Yes	4	5		Fall of Stone	Yes	I
3	Lal elle Shaft	Samuel Milkovich	12-26-11	12-26-11	Servian	4 days	25	Leader	S					Electrocuted	Yes	I
4	Lalwell Shaft	Michael Supica	1-15-12	1-15-12	Polish	40 Yrs.	26	Leader	S					Electrocuted	Yes	I
5	Lewis Mine No. 1	James Hickman	2-8-12	2-8-12	American		62	Miner	M	Yes	6	2		Electrocuted	Yes	I
MARION COUNTY																
1	Consolidation No. 28	Dominick Morant	7-6-11	7-6-11	Italian	3 Yrs.	38	Miner	M	No.	1	1		Fall of Slate	Yes	I
2	Consolidation No. 63	Joe Bonnis	7-17-11	7-18-11	Italian	1 Yr.	33	Driver	S					Fall of Slate	No.	I
3	Consolidation No. 43	John Lagonovitch	7-27-11	7-31-11	Austrian	11 Yrs.	34	Miner	M	Yes	3	3		Fall of Slate	No.	I
4	Consolidation No. 24	George Totosh	9-18-11	9-18-11	Slavish	2 Yrs.	21	Miner	M	No.				Fall of Coal and Slate	No.	I
5	Consolidation No. 38	Felix Tassila	10-5-11	10-21-11	Italian	2 Yrs.	34	Mach. Helper	M	No.	5	6		Electrocuted	No.	I
6	Consolidation No. 36	John Batsa	10-12-11	10-12-11	Pole	4 Yrs.	50	Timber man	M	Yes	1	1		Crushed between two mine cars	No.	I
7	Consolidation No. 56	William James	10-24-11	10-27-11	American				M	Yes						I
8	Consolidation No. 22	Mike Garbathie	11-8-11	11-8-11	Croatian	3 Yrs.	29	Miner	M	Yes		1	175.00	Fall of Slate	Yes	I
9	Janison No. 8	Dominick George	11-15-11	11-15-11	Italian	2 Yrs.	25	Miner	M	Yes	1	2	175.00	Mine Car	No.	I
10	Janison No. 8	Frank L. Watson	11-25-11	11-25-11	American	15 Yrs.	39	Fire Boss	M	Yes	5	6		Caught by Compressed Air Motor	Yes	I
11	Consolidation No. 47	Dominick Car	1-23-12	1-23-12	Italian	6 Yrs.	26	Miner	M	Yes	2	3		Fall of Slate	Yes	I
12	Consolidation No. 24	Joe Gaspor	2-2-12	2-2-12	Croatian	7 Yrs.	27	Loader	S					Fall of Slate	Yes	I
13	Janison No. 9	Peter Sycheur	2-4-12	2-4-12	Austrian	22	Loader	22	S					Caught between Cage and Timbers	Yes	I
14	Janison No. 8	Luis Proparise	4-2-12	4-2-12	Italian	4 Yrs.	22	Driver	S				175.00	Fall of Slate	Yes	I
15	Janison No. 7	Steve Elench	4-24-12	4-24-12	Austrian	1 Yr.	21	Driver	S					Crushed against rib by empty car	Yes	I
MARSHALL COUNTY																
1	Hitchman	Joe Farance	10-26-11		Hungarian	15 Yrs.	45	Loader	M	Yes	2	3		Fall of Slate	No	I
2	Hitchman	John Metlock	12-24-11	12-24-11	Slavish	4 Yrs.	25	Flagman	S					Crushed by Motor	No	I
BRAXTON COUNTY																
1	Open Mine No. 10	Sam Warner	11-6-11	11-6-11	Italian	5 Yrs.	21	Miner	S				400.00	Fall of Rock	Yes	I
2	Copen Mine No. 11	Charles Rathif	1-4-12	1-5-12	Negro	25 Yrs.	47	Miner	M	No			400.00	Mine Car	Yes	I
OHIO COUNTY																
1	Elm Grove	George Amos	11-28-11	11-28-11	American	15 Yrs.	50	Miner	M	Yes	5	6	500.00	Electrocuted	Yes	I
2	Elm Grove	Tom Schneuski	5-31-12	5-31-12	Pole		33	Loader	M	Yes	3	4		Fall of Slate	Yes	I

HARRISON COUNTY

1 Randolph.....	Geo. B. Skinner.....	7-7-11	7-8-11	American	24 Yrs.	24 Foreman	M	Yes	3	4	Cave-in.....	1
2 Willard No. 1.....	Sam Romano.....	7-8-11	7-8-11	Italian	12 Yrs.	25 Loader	M	Yes	3	4	Fall of Coal & Slate.....	1
3 Consolidation No. 29.....	Charles Ledoskey.....	7-31-11	7-31-11	Slav	9 Yrs.	35 Miner	M	Yes	3	4	Fall of Coal.....	1
4 Consolidation No. 21.....	Frank Mice.....	9-9-11	9-9-11	Italian	4 Mos.	24 Driver	S	No	6	6	Between Mine and Pillar.....	1
5 Consolidation No. 49.....	T. J. Nutter.....	9-26-11	9-27-11	American	4 Yrs.	45 Mch. Runner	M	No	6	6	Fall of Coal & Slate.....	1
6 Erie.....	Mauro Goricu.....	10-5-11	10-5-11	Pole	1 Mo.	20 Miner	M	Yes	3	4	Fall of Slate.....	1
7 Consolidation No. 35.....	Walter Barnes.....	10-5-11	10-5-11	American	1 Mo.	16 Loader	S	Yes	3	4	Struck by Locomotive.....	1
8 Consolidation No. 80.....	Joe Narons.....	4-19-12	4-19-12	Lithuanian	9 Yrs.	39 Foreman	M	Yes	1	1	Fall of Slate.....	1
9 Consolidation No. 35.....	Paul Girard.....	4-23-12	4-23-12	French	27 Yrs.	41 Foreman	M	Yes	4	5	Fall of Coal & Slate.....	1
10 Consolidation No. 49.....	John Kuss.....	5-2-12	5-20-12	Pole	15 Yrs.	40 Miner	S	Yes	6	7	Fall of Slate.....	1
11 Consolidation No. 25.....	Joseph Urick.....	5-17-12	5-17-12	Slav	10 Mos.	16 Trapper	S	No	1	1	Fall of Coal & Coal.....	1
12 Consolidation No. 51.....	Dominico Marra.....	5-22-12	5-22-12	Italian	20 Mos.	35 Miner	M	Yes	2	3	Run over by Motor.....	1
13 Binghamton.....	Joe Vasto.....	5-24-12	5-24-12	Pole	1 Yr.	29 Loader	M	Yes	1	2	Fall of Coal & Slate.....	1
14 Randolph.....	John Foxova.....	6-25-12	6-25-12	Pole	1 Yr.	29 Loader	M	Yes	1	2	Explosion of alternating Cup.....	1

BARBOUR COUNTY

1 Consolidation No. 37.....	Tony Scarell.....	8-18-11	8-18-11	Italian	4 Mos.	17 Loader	S	Yes	3	4	Fall of Rock.....	1
2 Century No. 1.....	Anthony Gachinski.....	9-6-11	9-6-11	Pole	10 Yrs.	37 Miner	S	Yes	3	4	Caught in Machine.....	1
3 Lillian No. 2.....	Jim Porter.....	2-3-12	2-3-12	Italian	17 Yrs.	17 Helper	S	No	3	4	Fall of Coal.....	1
4 Consolidation No. 37.....	John Csakovich.....	5-21-12	5-21-12	Hungarian	42 Yrs.	42 Timberman	M	Yes	3	4	Fall of Rock.....	1

MONONGALIA COUNTY

1 Suberton No. 4.....	B. Vincenzo.....	1-6-12	1-6-12	Italian	2 Mos.	29 Miner	S	No	1	1	200.00 Fall of Rock.....	1
2 Elkans C. & C. Co. No. 1.....	Joe Perri.....	1-22-12	1-22-12	Italian	10 Yrs.	25 Motorman	S	No	1	1	Lost control of Motor and jumped off.....	1

PRESTON COUNTY

1 Tunnerton No. 2.....	Dominie Costo.....	9-16-11	9-16-11	Italian	3 Yrs.	27 Machine man	M	Yes	1	2	Caught between machine and timbers.....	1
2 Newburg Shaft.....	William Henry.....	5-23-12	5-23-12	American	6 Yrs.	27 Driver	S	No	1	1	500.00 Fall of coal & Slate.....	1
3 Austen No. 2.....	Paul Rone.....	6-25-12	6-25-12	Italian	5 Yrs.	20 Miner	S	No	1	1	300.00 Fall of Rock.....	1

RANDOLPH COUNTY

1 Davis Gallery No. 2.....	Fred Philip.....	3-18-12	3-18-12	Italian	10 Yrs.	40 Miner	M	Yes	2	2	Fall of Coal.....	1
2 Weaver No. 1.....	Albert Donaldson.....	3-19-12	3-19-12	American	6 Mos.	15 Chaser	S	No	1	1	Mine Car.....	1

TUCKER COUNTY

1 Thomas No. 23.....	Joe Dennis.....	8-4-11	8-4-11	Litish	22 Yrs.	40 Miner	S	No	1	1	Fall of Coal.....	1
2 Davis Coal & Coke No. 1.....	Wm. H. Allen.....	8-18-11	8-18-11	American	47 Yrs.	47 Miner	M	No	1	1	Pell down shaft.....	1
3 Cockton No. 36.....	Larry Pezante.....	8-31-11	8-31-11	Italian	10 Yrs.	39 Miner	M	Yes	5	6	Fall of Slate.....	1
4 Cockton No. 26.....	Emanuel Harris.....	10-3-11	10-3-11	Negro	5 Yrs.	34 Miner	M	Yes	1	1	200.00 Fall of Roof.....	1
5 Thomas No. 34.....	John Schultz.....	10-24-11	10-24-11	Pole	4 Yrs.	27 Miner	M	Yes	1	1	200.00 Fall of Top Coal.....	1
6 Davis Coal & Coke No. 36.....	Tarinet Tasso.....	2-12-12	2-12-12	Italian	10 Yrs.	46 Miner	M	Yes	4	5	Fall of Slate.....	1
7 Douglas No. 2.....	Sam Barrett.....	2-17-12	2-17-12	Italian	15 Yrs.	35 Coupler	M	Yes	1	2	200.00 Mine Cars.....	1

TAYLOR COUNTY

1 Rosemont No. 1.....	Mike Zeloria.....	12-28-11	12-28-11	Slav	5 Yrs.	35 Miner	M	Yes	2	3	Fall of Coal.....	1
2 Wendel No. 4.....	Dene Todor.....	6-10-12	6-10-12	Bohemian	2 Yrs.	38 Loader	M	No	2	2	Fall of Slate.....	1

FATAL ACCIDENTS FOR YEAR ENDING JUNE 30TH, 1912.—Continued.

No.	NAME OF MINE	Name of Person Killed	Date of		Nationality	Ex- perience	Age	Occupation	Married or Single	Widow	Children	Total No. Dependents	Amount In- sur- ance	How Killed	Inquest	Inside or Outside
			Injured	Death												
GRANT COUNTY																
1	Henry No. 22	Frank Chucci	1-4-12	1-4-12	Italian	4 Yrs.	19	Miner	S				200.00	Cartridge explosion	No	I
UPSHUR COUNTY																
1	Red Rock	L. R. Brooks	8-2-11	8-2-11	American	1 Yr.	37	Miner	M	Yes	4	5		Electrocuted	No	I
GILMER COUNTY																
1	Brackett	Goff Frame	5-24-12	5-24-12	American	3 Yrs.	28	Miner	M	Yes	4	5		Fall of Roof	Yes	I
CLAY COUNTY																
1	Rich Run	Horace Streets	10-2-11	10-3-11	American	2 Yrs.	22	Mch. Runner	S					Caught in Machine	No	I
PUTNAM COUNTY																
1	Big Otto No. 3	Edw. Pendleton	7-21-11	7-21-11	Negro	9 Yrs.	39	Miner	M					Fall of Slate	No	I
2	Big Otto No. 1	J. H. McCormack	1-3-12	1-3-12	American	6 Mos.	25	Miner	M	Yes	1	2		Fall of Slate	No	I
3	Manilla	William Hill	3-29-12	3-29-12	American	4 Yrs.	40	Miner	M	Yes	4	5		Fall of Slate	No	I
MASON COUNTY																
1	Lincoln	Joseph Pierce	3-19-12	3-19-12	American	13 Yrs.	28	Helper	S					Fall of Slate	No	I
BOONE COUNTY																
1	Webb	Anderson Ward	4-26-12	4-26-12	Negro	9 Yrs.	29	Helper	S					Electrocution	No	I
KANAWHA COUNTY																
1	Imperial Colliery No. 1	F. A. Williams	7-6-11	7-27-11	American	20 Yrs.	40	Miner	M	Yes	6	7		Fall of Coal	No	I
2	Raccoon No. 1	Bernard Saxva	7-19-11	7-19-11	Italian	15 Yrs.	31	Loader	M	Yes	1	1		Electrocuted	No	I
3	Horton No. 2	Davy C. Jenkins	7-25-11	7-25-11	Negro	7 Yrs.	32	Mch. Runner	M	Yes	1	1	50.00	Electrocuted	No	I
4	Caledonia	George Schylaska	8-2-11	8-2-11	Pole	7 Yrs.	22	Loader	S					Fall of Slate	No	I
5	Belleclare	Wm. Frisley	8-7-11	8-7-11	American	6 Yrs.	25	Miner	S					Mine Car	No	I
6	Buchas Creek No. 2	Grove Rutledge	8-23-11	8-23-11	American	5 Yrs.	19	Loader	S					Fall of Slate	No	I
7	Lehigh No. 1	Roman Ziska	9-7-11	9-27-11	Romanian	2 Yrs.	40	Miner	S					Fall of Slate	No	I
8	Splint	Tom Bradshaw	9-8-11	9-11-11	Negro	1 Yr.	20	Minor	S				240.00	Powder Explosion	No	I
9	Conda	Bonner T. Eble	9-16-11	9-16-11	American	2 Yrs.	16	Helper	S					Mine Car	No	I
10	West Virginia No. 3	Spencer Stanley	9-19-11	9-19-11	American	7 Yrs.	19	Loader	M	Yes	2	3		Fall of Slate	No	I
11	Carlton No. 3	Thomas Nesbit	10-27-11	10-27-11	Scottish-Am.	10 Yrs.	24	Minor	M	Yes	6	7		Fall of Slate	No	I
12	North Mue	William Green	1-12-12	1-12-12	American	20 Yrs.	34	Miner	M	Yes	6	7		Fall of Slate	No	I
13	West Raccoon No. 2	Robert Hensley	1-15-12	1-15-12	American	1 Yr.	14	Helper	S				50.00	Mine Car	No	I
14	Faint Creek	Edward Toney	1-29-12	1-29-12	American	15 Yrs.	24	Minor	M	Yes	1	1		Fall of Slate	No	I
15	Empire	Andrew Gillon	2-3-12	2-23-12	American	10 Yrs.	32	Mch. Runner	M	Yes	2	3		Fall of Slate	No	I

FATAL ACCIDENTS FOR YEAR ENDING JUNE 30TH, 1912.—Continued.

NAME OF MINE	Name of Person Killed	Date of		Nationality	Ex- perience	Age	Occupation	Married or Single	Widow	Total No. Dependents	Amount In- surance	How Killed	Inquest	Inside or Outside
		Injured	Death											
FAYETTE COUNTY—Con.														
40 Sunday Creek No. 112	Wort Milton	3-19-12	3-19-12	American	3 Yrs.	25	Helper	M	Yes	2	3	Premature shooting down of cut	No	1
41 Oakwood	William Woods	3-27-12	3-27-12	American	8 Yrs.	50	Miner	M	Yes	3	4	25.00 Fall of Rock	Yes	1
42 Slater	William D. Walker	4-16-12	4-16-12	Negro	1 Yr.	15	Back Hand	M	Yes	3	4	25.00 Mine Cars	No	1
43 Darrydale	John Frank	4-24-12	4-24-12	Hungarian	1 Yr.	21	Loader	M	Yes	1	1	Fall of Slate	No	1
44 Eureka No. 14	Tony George	5-11-12	5-11-12	Italian	5 Yrs.	35	Miner	M	Yes	1	1	Fall of Rock	No	1
45 Lyman	Jos. Martincowitch	5-14-12	5-14-12	German	10 Yrs.	58	Miner	M	Yes	1	1	140.00 Fall of Slate	Yes	1
46 Minden No. 3	William Bailey	5-15-12	5-15-12	American	15 Yrs.	40	Miner	M	Yes	2	3	Fall of Top Coal	No	1
47 Derrydale	Frank Frank	5-16-12	5-16-12	Hungarian	5 Yrs.	31	Slateman	M	No	1	1	145.00 Fall of Slate	No	1
48 Baby	Paul Rainaud	5-20-12	5-20-12	Pole	5 Yrs.	21	Miner	M	Yes	1	1	Fall of Coal	No	1
49 Collins No. 1	Jake Barbara	6-15-12	6-15-12	Pole	4 Yrs.	27	Miner	M	Yes	1	1	1100.00 Fall of Coal	No	1
50 Minden No. 5	Steve Linck	6-24-12	6-24-12	Russian	3 Yrs.	21	Mob. Helper	M	Yes	1	1	Fall of Slate	No	1
RALEIGH COUNTY														
1 E. E. White No. 1 & 2	Vaden Perkins	8-1-11	8-1-11	Negro	1 Yr.	18	Brakeman	M	Yes	1	1	100.00 Mine Car	No	1
2 Pincy No. 2	Johnnie Jennings	8-8-11	8-8-11	Negro	1 Mo.	15	Backhand	M	Yes	1	1	Fall of Coal	No	1
3 Sidney	Albert Carman	9-21-11	9-21-11	American	3 Wks.	16	Trapper	M	Yes	1	1	Mine Car	No	1
4 Raleigh No. 4	Dave Washington	10-31-11	10-31-11	American	20 Yrs.	40	Miner	M	Yes	1	1	Fall of Draw Slate	No	1
5 Graham No. 1	Homer Wyzal	11-3-11	11-3-11	American	20 Mos.	20	Laborer	M	Yes	1	1	Fall of Slate	No	1
6 Cranberry	John Surliss	11-14-11	11-14-11	Lithuanian	10 Yrs.	50	Miner	M	Yes	4	5	50.00 Fall of Slate	No	1
7 Tanus	Robert Branch	11-25-11	11-25-11	Negro	5 Yrs.	30	Miner	M	Yes	1	1	Fall of Coal	No	1
8 Bailey Wood	Peter Keswick	12-1-11	12-1-11	Russian	4 Yrs.	23	Miner	M	Yes	1	1	Fall of Slate	No	1
9 Mabscott	Quinn Jones	12-13-11	12-13-11	Negro	34 Yrs.	56	Miner	M	Yes	1	1	Fall of Slate	No	1
10 Dorothy	Beneretta Paletta	12-16-11	12-17-11	Italian	6 Yrs.	26	Brakeman	M	Yes	1	1	Run over by motor	Yes	1
11 Eccles No. 3	Daniel Campbell	12-31-11	12-31-11	American	10 Yrs.	26	Timberman	M	Yes	1	1	Fall of Slate	No	1
12 Sullivan	Dick Thornton	1-5-12	1-6-12	Scott	30 Yrs.	50	Miner	M	Yes	1	1	Fall of Slate	No	1
13 Raleigh No. 6	Burt Scott	1-13-12	1-13-12	American	5 Yrs.	25	Miner	M	Yes	1	1	50.00 Fall of Slate	No	1
14 Eccles No. 6	Corriere Solastina	1-13-12	1-13-12	Italian	2 Mos.	22	Miner	M	Yes	1	1	50.00 Fall of Slate	No	1
15 Raleigh No. 6	Will Reed	1-13-12	1-13-12	American	15 Yrs.	45	Miner	M	Yes	5	6	50.00 Fall of Draw Slate	No	1
16 E. E. White Shaft	Harrison Hancock	1-17-12	1-19-12	Negro	1 Yr.	22	Trapper	M	Yes	1	1	50.00 Mine Car	No	1
17 Bailey Wood	J. F. Stump	1-20-12	1-20-12	American	4 Yrs.	18	Driver	M	Yes	1	1	50.00 Mine Cars	No	1
18 Tanus	Andrew Wilson	3-9-12	3-9-12	American	2 Yrs.	26	Miner	M	Yes	1	1	100.00 Fall of Slate	No	1
19 Graham	John Varskey	3-22-12	3-22-12	Russian	2 Yrs.	50	Miner	M	Yes	1	1	50.00 Fall of Slate	No	1
20 E. E. White No. 2	George Clemens	3-30-12	3-30-12	Negro	2 Yrs.	18	Loader	M	Yes	1	1	Fall of Slate	No	1
21 Eccles No. 3	Howard Houston	4-19-12	4-19-12	Negro	8 Yrs.	25	Miner	M	Yes	1	1	Electrocuted	No	1
22 E. E. White	John Robinson	4-22-12	4-25-12	Negro	2 Yrs.	22	Miner	M	Yes	1	1	Mine Cars	No	1
23 Raleigh No. 3	Rufus Hicks	4-29-12	4-29-12	American	2 Yrs.	24	Slateman	M	Yes	1	1	Fall of Slate	No	1
24 Mabscott	John Lozer	5-17-12	5-17-12	Pole	5 Yrs.	41	Miner	M	Yes	4	5	Fall of Slate	No	1

FATAL ACCIDENTS FOR YEAR ENDING JUNE 30TH, 1912.—Continued.

No.	NAME OF MINE	Name of Person Killed	Date of		Nationality	Ex- perience	Age	Occupation	Married or Single	Widow	Total No. Dependents	Amount In- surance	How Killed	Inquest	Inside or Outside
			Injured	Death											
McDOWELL COUNTY—Con.															
16	U. S. C. C. Co No. 4	Ernest King	8-31-11	8-31-11	Negro.	4 Yrs.	23	Helper	✓	✓			Fall of Slate	No	1
17	Keystone No. 1	Frank Zori	9-5-11	9-5-11	Italian	6 Yrs.	25	Miner	✓	✓		50.00	Electrocuted	No	1
18	U. S. C. C. Co. No. 3	John C. Zarmatta	9-6-11	9-6-11	Pole	5 Yrs.	27	Foreman	✓	✓			Premature Explosion of Cartridge	No	
19	Lick Branch	George Szlozski	9-9-11	10-10-11	Pole	2 Yrs.	30	Miner	M	Yes	2	3 Per Wk. \$5	Fall of Coal	No	1
20	Empire	Tom Kisen	9-18-11	9-18-11	English	6 Yrs.	28	Bratticeman	✓	✓			Fall of Slate	No	1
21	Henrietta	Charles O. Bowles	10-2-11	1-2-11	American	3 Yrs.	23	Miner	M	Yes	1	100.00	Fall of Slate	No	1
22	Berwind No. 2	George Wilson	10-2-11	10-2-11	American	4 Yrs.	23	Miner	M	Yes	1		Fall of Slate	No	1
23	Berwind No. 1	Simon Crutcheffeld	10-5-11	10-5-11	Negro	3 Yrs.	19	Brakeman	✓	✓		50.00	Mine Locomotive	No	1
24	Rolfe	Edward Bales	10-5-11	10-5-11	American	3 Yrs.	21	Helper	✓	✓			Electrocuted	No	1
25	Mohawk	John Saunders	10-6-11	10-6-11	American	1 Yr.	17	Slateman	✓	✓			Fall of Slate	No	1
26	Mohawks	Sam Kesborts	10-9-11	10-9-11	Russian	2 Wks.	26	Slateman	✓	✓	2		Mine Car	No	1
27	Tidewater	Obie Jones	10-11-11	10-11-11	American	2 Mos.	17	Brakeman	✓	✓			Mine Car	No	1
28	Gilliam	Nick Lusvans	10-13-11	10-13-11	Greek	4 Yrs.	45	Miner	✓	✓	6	50.00	Mine Car	No	1
29	Powhatan	William Hoskow	10-13-11	10-13-11	Russian	1 Yr.	30	Miner	✓	✓			Fall of Coal	No	1
30	Eureka	James Guthrie	10-14-11	10-14-11	Scotch	35 Yrs.	51	Slateman	✓	✓	5		Fall of Slate	No	1
31	Empire	Wash Stratton	11-6-11	11-6-11	Negro	20 Yrs.	33	Miner	✓	✓	3		Fall of Slate	No	1
32	Indian Ridge	John Shaak	11-6-11	11-6-11	American	12 Yrs.	30	Miner	M	Yes	3		Fall of Slate	No	1
33	Shamokin	Salvatore Bekost	11-7-11	11-7-11	Italian	3 Yrs.	37	Slateman	M	Yes	4		Fall of Slate	No	1
34	Shamokin	William Harris	11-14-11	11-14-11	Negro	9 Days	30	Leader	✓	✓			Run over	No	0
35	Elk Ridge No. 1	William Davis	11-17-11	11-17-11	American	6 Yrs.	35	Miner	M	Yes	2		Fall of Slate	Yes	1
36	Bottom Creek No. 1	Martin Golish	11-18-11	11-18-11	Harwart	10 Yrs.	29	Miner	M	Yes	3		Gas Explosion	Yes	1
37	Bottom Creek No. 1	Frank Golish	11-18-11	11-18-11	Harwart	2 Yrs.	33	Miner	M	Yes	3		Gas Explosion	Yes	1
38	Bottom Creek No. 1	Peter Kroziuski	11-18-11	11-18-11	Lithuanian	8 Yrs.	51	Miner	M	Yes	4		Gas Explosion	Yes	1
39	Bottom Creek No. 1	Philip Zalensk	11-18-11	11-18-11	Harwart	2 Yrs.	57	Miner	M	Yes	3		Gas Explosion	Yes	1
40	Bottom Creek No. 1	Gregor Amola	11-18-11	11-18-11	Russian	20 Mos.	22	Trackman	✓	✓		50.00	Gas Explosion	Yes	1
41	Bottom Creek No. 1	Frank Holavaca	11-18-11	11-18-11	Russian	1 Yr.	18	Slateman	✓	✓			Gas Explosion	Yes	1
42	Bottom Creek No. 1	Joe Vance	11-18-11	11-18-11	Slav	20 Yrs.	50	Miner	M	Yes	3	50.00	Gas Explosion	Yes	1
43	Bottom Creek No. 1	Frank Mollice	11-18-11	11-18-11	Italian	8 Yrs.	38	Miner	M	Yes	5	50.00	Gas Explosion	Yes	1
44	Bottom Creek No. 1	Pan Campbell	11-18-11	11-18-11	Negro	6 Yrs.	28	Miner	✓	✓	6	150.00	Gas Explosion	Yes	1
45	Bottom Creek No. 1	Guy Bratcher	11-18-11	11-18-11	Negro	3 Yrs.	23	Driver	✓	✓		150.00	Gas Explosion	Yes	1
46	Bottom Creek No. 1	R. C. Hubbard	11-18-11	11-18-11	Negro	17 Yrs.	27	Miner	M	Yes	2		Gas Explosion	Yes	1
47	Bottom Creek No. 1	Henry Hubbard	11-18-11	11-18-11	Negro	1 Yr.	21	Miner	✓	✓		50.00	Gas Explosion	Yes	1
48	Bottom Creek No. 1	Burton Moore	11-18-11	11-18-11	Negro	8 Yrs.	29	Miner	✓	✓		50.00	Gas Explosion	Yes	1
49	Bottom Creek No. 1	Steve Arouchuk	11-18-11	11-18-11	Russian	2 Yrs.	24	Miner	✓	✓			Gas Explosion	Yes	1
50	Bottom Creek No. 1	W. H. Henderson	11-18-11	11-18-11	American	23	Miner	✓	✓	✓			Gas Explosion	Yes	1
51	Bottom Creek No. 1	C. L. Brewer	11-18-11	11-18-11	American	23	Asst. M. Eng.	✓	✓	✓	3		Gas Explosion	Yes	1

FATAL ACCIDENTS FOR YEAR ENDING JUNE 30TH, 1912.—Continued.

No.	NAME OF MINE	Name of Person Killed	Date of		Ex-perience	Age	Occupation	Married or Single	Widow	Children	Total Dependents	Amount Insurance	How Killed	Inquest	Inside or Outside of Mine
			Injured	Death											
	McDOWELL COUNTY—	Con.													
92	Jed	Sam B. Jefferson	3-26-12	3-26-12	Negro	25	Miner	M	Yes	1	1		Mine Explosion—Gas and Dust	Yes	1
93	Jed	Steve Hovart	3-26-12	3-26-12	Hungarian	10 Yrs.	Miner	M	Yes	2	3		Mine Explosion—Gas and Dust	Yes	1
94	Jed	William Selidia	3-26-12	3-26-12	Hungarian	5 Yrs.	Miner	M	Yes	6	7		Mine Explosion—Gas and Dust	Yes	1
95	Jed	Robert Gillespie	3-26-12	3-26-12	American	10 Yrs.	Trackman	S				25.00	Mine Explosion—Gas and Dust	Yes	1
96	Jed	Adam Minsick	3-26-12	3-26-12	Russian	5 Yrs.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
97	Jed	John Sammy	3-26-12	3-26-12	Italian	2 Yrs.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
98	Jed	William Demlronski	3-26-12	3-26-12	Russian	10 Yrs.	Miner	M	Yes	1	1	25.00	Mine Explosion—Gas and Dust	Yes	1
99	Jed	Mike Guydluck	3-26-12	3-26-12	Italian	3 Yrs.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
100	Jed	Alex Celaski	3-26-12	3-26-12	Hungarian	7 Yrs.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
101	Jed	Joe Ross	3-26-12	3-26-12	Italian	6 Yrs.	Miner	M	Yes	3	4		Mine Explosion—Gas and Dust	Yes	1
102	Jed	Steve Yerkovich	3-26-12	3-26-12	Slav	1 Yr.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
103	Jed	Andy George	3-26-12	3-26-12	Italian	3 Yrs.	Miner	M	Yes	5	6		Mine Explosion—Gas and Dust	Yes	1
104	Jed	Romania George	3-26-12	3-26-12	Italian	1 Yr.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
105	Jed	Andrew Zareski	3-26-12	3-26-12	Hungarian	1 Yr.	Tracklayer	S				25.00	Mine Explosion—Gas and Dust	Yes	1
106	Jed	Frank Galya	3-26-12	3-26-12	Hungarian	1 Yr.	Trapper	S					Mine Explosion—Gas and Dust	Yes	1
107	Jed	Alex Gorantella	3-26-12	3-26-12	Italian	2 Yrs.	Miner	S					Mine Explosion—Gas and Dust	Yes	1
108	Jed	Bruno Pecase	3-26-12	3-26-12	Italian	2 Yrs.	Trapper	S					Mine Explosion—Gas and Dust	Yes	1
109	Jed	Jas. S. Parsons	3-26-12	3-26-12	American	12 Yrs.	Miner	M	Yes	3	4		Mine Explosion—Gas and Dust	Yes	1
110	Jed	William Bell	3-26-12	3-26-12	American	3 Yrs.	Miner	M	Yes	3	4		Mine Explosion—Gas and Dust	Yes	1

FATAL ACCIDENTS FOR YEAR ENDING JUNE 30TH, 1912.—Continued.

No.	NAME OF MINE	Name of Person Killed	Date of		Ex- perience	Occupation	Married or Single	Widow	Children Total No.	Amount Insur- ance	How Killed	Inquest Inside or Outside
			Injured	Death								
	McDOWELL COUNTY—	Con.										
136	Jed	Edward Johnson	3-26-12	3-26-12	3 Yrs.	28 Driver	?			25.00	Mine Explosion—Gas and Dust	Yes
137	Jed	Kalmon Pop.	3-26-12	3-26-12	1 Yr.	28 Miner	?				Mine Explosion—Gas and Dust	Yes
138	Jed	Dominic Flex	3-26-12	3-26-12	4 Yrs.	27 Miner	M	Yes	3	4	Mine Explosion—Gas and Dust	Yes
139	Jed	Reynold Flex	3-26-12	3-26-12	6 Yrs.	30 Miner	?				Mine Explosion—Gas and Dust	Yes
140	Jed	Paul Martu	3-26-12	3-26-12	3 Yrs.	28 Miner	?				Mine Explosion—Gas and Dust	Yes
141	Jed	Nick Golya, Sr.	3-26-12	3-26-12	10 Yrs.	55 Slateman	M	Yes	2	3	25.00 Mine Explosion—Gas and Dust	Yes
142	Jed	John Agoes	3-26-12	3-26-12	2 Yrs.	21 Slateman	?			25.00	Mine Explosion—Gas and Dust	Yes
143	Jed	Mike J. Pat.	3-26-12	3-26-12	1 Yr.	20 Miner	?				Mine Explosion—Gas and Dust	Yes
144	Jed	Toney Harendoe	3-26-12	3-26-12	3 Yrs.	28 Miner	?			25.00	Mine Explosion—Gas and Dust	Yes
145	Jed	Sam Flex	3-26-12	3-26-12	2 Yrs.	22 Miner	?				Mine Explosion—Gas and Dust	Yes
146	Jed	Mike Golya	3-26-12	3-26-12	1 Yr.	22 Track Helper	?				Mine Explosion—Gas and Dust	Yes
147	Jed	Kisvach, Alex	3-26-12	3-26-12	6 Yrs.	33 Miner	M	Yes	3	4	Mine Explosion—Gas and Dust	Yes
148	Jed	Frank Molnar	3-26-12	3-26-12	7 Yrs.	35 Miner	M	Yes	7	8	Mine Explosion—Gas and Dust	Yes
149	Jed	Ted Swaby	3-26-12	3-26-12	1 Yr.	30 Bratticeman	M	Yes	2	3	Mine Explosion—Gas and Dust	Yes
150	Jed	John Gugley	3-16-12	3-26-12	3 Yrs.	26 Miner	?				Mine Explosion—Gas and Dust	Yes
151	Jed	Jos. Burveji	3-26-12	3-26-12	6 Yrs.	33 Trackman	M	Yes		1	Mine Explosion—Gas and Dust	Yes
152	Jed	Frank Spangnola	3-26-12	3-26-12	1 Yr.	17 Miner	?				Mine Explosion—Gas and Dust	Yes
153	Jed	Chas. Spangula	3-26-12	3-26-12	1 Yr.	19 Miner	?				Mine Explosion—Gas and Dust	Yes
154	Jed	Peter Solwaske	3-26-12	3-26-12	3 Yrs.	25 Miner	?			25.00	Mine Explosion—Gas and Dust	Yes

FATAL ACCIDENTS FOR THE YEAR ENDING JUNE 30th, 1912.

BROOKE COUNTY.

November 9, 1911.—Koja Strika or John Streat, Trackman, 35, Austrian, La Belle Shaft Mine. Instantly killed by fall of rock.

December 1, 1911.—Henry Gorges, Miner, 28, German, Beach Bottom Mine. He attempted to take up bottom coal without removing loose rock overhead and was instantly killed by fall of the latter.

December 26, 1911.—Mele Polcus alias Samuel Milkovich, Loader, 25, Servian, La Belle Shaft Mine. He was sitting on empty car on siding when he rose up suddenly and the back of his neck struck the trolley wire instantly electrocuting him.

January 15, 1912.—Michael Supica alias Mike Subitza, Loader, 26, Polish. He was found lying along the track with his side touching the machine wires. It is supposed he was electrocuted.

February 8, 1912.—James Rickman, Miner, 62, American, La Belle Coal Co. In attempting to crawl over an empty car which was blocking the way, he struck a live wire and was electrocuted.

MARION COUNTY.

July 6, 1911.—Dominick Morant, Miner, 38, Italian, Consolidation No. 28 Mine. Instantly killed by fall of slate.

July 17, 1911.—Joe Bonnis, Driver and Brakeman, 25, Italian, Consolidation No. 63. Struck by a piece of slate, which broke his leg, dislocated his hip and injured him internally, from which injuries he died the next day.

July 27, 1911.—John Laconovick, Miner, 35, Austrian, Consolidation No. 43 Mine. He was standing on a wood rail which he had placed across a car and was taking down slate. The slate fell on him, causing injuries so serious that he died from them on the 31st of July.

September 18, 1911.—George Rotash, Machine Coal Loader, 54, Slav., Consolidation No. 24. Instantly killed by fall of slate.

October 5, 1911.—Felix Tassilla, Machine Miner, 21, Italian, Consolidation No. 53 Mine. Instantly killed by fall of slate.

October 12, 1911.—John Batsa, Machine Runner, 34, Pole, Italian, Consolidation No. 36 Mine. Obeying instructions, he attempted to disconnect the machine cable and in so doing caught hold of both nipples at the same time with his wet gloves, receiving the full force of the current, which was fatal.

October 24, 1911.—William James, Timberman, 50, American, Consolidation No. 56 Mine. He and another man were pushing a car of lumber when it began to move very fast and ran into an open switch and collided with a car of props, catching James between the end of his car and the props and crushing him through the hips, from which injuries he died.

November 8, 1911.—Mike Garbotchie, Miner, 29, Crothian, Consolidation No. 22. Instantly killed by fall of slate.

November 15, 1911.—Dominick George, Miner, 25, Italian, Jamison No. 8 Mine. Fall of coal struck brake of car releasing same. The car moved forward and in attempting to set brake, the victim placed his head between car and roof with fatal results.

November 25, 1911.—F. L. Watson, Fire Boss, 39, American, Jamison No. 8 Mine. In stepping aside to avoid a motor, he did not see another one approaching, stepped in front of it and was killed.

January 23, 1912.—Dominick Carr, Miner, 26, Italian, Consolidation No. 47 Mine. In trying to get away from a threatened fall of slate, he ran against a prop which stunned him and prevented his getting out in time to avoid the fall. He was instantly killed.

February 4, 1912.—Peter Spchear, Loader, 22, Austrian, Jamison No. 9 Mine. After stepping off cage, he attempted to get back on it after signal to rise had been given, and was crushed between cage and timber of shaft, and fatally hurt.

February 2, 1912.—Joe Gasper, Machine Runner and Loader, 27, Croatian, Consolidation No. 24. Instantly killed by fall of slate.

April 24, 1912.—Steve Eleich, Empty Pusher, 21, Austrian, Jamison No. 7 Mine. While pushing two empty cars, in some manner, (there being no witnesses) he got on the narrow side of the track and was crushed between the car and rib, which resulted in death.

April 2, 1912.—Luis Proparise, Driver, 22, Italian, Jamison No. 8 Mine. Instantly killed by fall of slate. It is supposed that the cause of this slate falling was that a prop was set too near the track and car caught it and knocked it out. Place was well timbered.

MARSHALL COUNTY.

October 26, 1911.—Joe Farance, Coal Loader, 45, Hungarian, Hitchman Mine. Coal, which had been loosened by a shot that he had just fired fell on him and crushed him to death, while he was shoveling coal into the car.

December 24, 1911.—John Metlock, Motor Flagman, 25, Slavish, Hitchman Mine. During a delay in the work that was caused by a motor jumping the track, he sat down to rest and fell asleep. When he heard the motor coming he awoke suddenly and was evidently bewildered, for he stepped in front of it and was struck and fatally injured.

BRAXTON COUNTY.

November 6, 1911.—Sam Warner, Miner, 21, Italian, Davis Colliery Co., No. 11 Mine. Disregarding orders to post a piece of loose overhanging slate, under which he was working, he was instantly killed by its fall.

January 4, 1912.—Charles Ratliff, Miner, 47, Negro, Copen Mine of the Davis Colliery Co. He was caught between mine car and rib and crushed to death. He was out of working place and should not have been where he was.

OHIO COUNTY.

November 28, 1911.—George Amos, Miner, 50, American, Elm Grove Mine of the Elm Grove Coal Co. He threw some implements on the motor and then leaned over the motor and while in this position his metal lamp touched a live wire, thus completing an electric circuit and he was immediately electrocuted.

May 31, 1912.—Tom Schurnski, Loader, 36, Russian Pole, Elm Grove Mine of the Elm Grove Coal Co. Instantly killed by fall of stone.

HARRISON COUNTY.

July 7, 1911.—Randolph Mine of the Maderia-Hill-Clark Coal Co., George Barney Skinner, Mine Foreman, 48, American. He was engaged in bracing up and timbering the sides of the banks, when some dirt broke out of the upper bank and loosened and fell on him, catching him between some mine rails and the bank, causing injuries so serious that he died from them next day. This was purely an unavoidable accident. Mr. Skinner was an experienced and competent man, having served as mine foreman for many years.

July 8, 1911.—Willard No. 1, of the Virginia-Maryland Coal Corporation. Sam Romana, Loader, 25, Italian. He was trying to pull down coal just after blasting and it fell on him and instantly killed him.

July 31, 1911.—No. 29, of The Consolidation Coal Co. Charley Lehosky, Miner, 35, Slav. He had fired a shot which brought down part of the coal, leaving the remainder overhanging, but evidently cracked loose. While working on this block, it broke loose, knocking him backwards and crushing him, causing injuries from which he died about an hour later.

September 9, 1911.—No. 21 of The Consolidation Coal Co. Frank Mino, Driver, 24, Italian. He was caught between a mine car and the pillar and crushed through the chest, from which injuries he died.

October 5, 1911.—Erie Mine of the Hutchinson Coal Co. Matur Gerlieu, Miner, 24, Pole. After making his shot, he returned to his room too soon and was caught by a fall of slate, and instantly killed.

October 5, 1911.—No. 35 of The Consolidation Coal Co. Walter Barnes, Brakeman, 16, American. He was riding on trip which was being shoved by the locomotive operating between pit mouth and tippie. He had cut off the loads and in some manner fell in front of locomotive which ran on him, injuring him so badly that he died the same day.

September 26, 1911.—No. 49, of The Consolidation Coal Co. T. L. Nutter, Machine Runner, 45, American. He was drilling an auger hole when without warning, about a ton of coal and slate fell upon him, from which injuries he died next day.

April 19, 1912.—No. 60 of The Consolidation Coal Co. Joe Narons, Miner, 39, Lithuanian. He went back two minutes after shot was fired and began to load his car, when the roof slate, which was loosened by the shot fell on him and crushed his skull, causing instant death.

April 23, 1912.—No. 35 of The Consolidation Coal Co. Paul Girod, Mine Foreman, 41, French. He was warned twice about working at a stump which was unsafe, but disregarding the warnings, he continued to pick at it and the top coal fell on him, crushing him to death.

May 2, 1912.—No. 49 of The Consolidation Coal Co. John Kuss, Loader, Polish. Died May 20th from injuries received from fall of slate on May 2.

May 17, 1912.—No. 25 of The Consolidation Coal Co. Joseph Urcheek, Miner, 40, Slav. Instantly killed by fall of slate, caused by his digging too much of the stump away.

May 22, 1912.—No. 51 of The Consolidation Coal Co. Dominico Marra, Trapper, 17, Italian. This boy was lying on the track and evidently was

asleep. The motorman did not see him until he was within 20 feet of him. He reversed his motor and applied the sand, but with no avail. The motor ran over the boy and he died of the injuries received in less than an hour.

May 24, 1912.—Bingamon Mine of the Marion Gas Coal Co. Joe Vasto, Miner, 35, Polish. Instantly killed by fall of slate. This was an unavoidable accident.

June 25, 1912.—Randolph Mine of the Maderia-Hill-Clark Coal Co. John Poxova, Miner, 29, Polish. This man did not die immediately and before he died he said that he had his coalite caps in his hand when a spark dropped from his lamp into the caps and exploded them. He died in a short time from the injuries received.

BARBOUR COUNTY.

August 18, 1911.—No. 37 of The Consolidation Coal Co. Tony Searcell, Loader, 17, Italian. A shot had been fired which uncovered a slip in the roof. The victim was picking down some coal from the roof, when it fell on him breaking his neck and back and instantly killing him.

September 6, 1911.—Century No. 1 Mine of the Century Coal Co. Anthony Gachinski, Miner, 37, Polish. This man was caught in his machine and his right leg was lacerated and otherwise hurt. He was removed to the physician's office where he was attended by three physicians. The limb was amputated, but he died of loss of blood a few hours later.

February 3, 1912.—Lillian Mine of the Grafton Fuel Co. Jim Portor, Machine Helper, 17, Italian. Instantly killed by fall of coal.

May 21, 1912.—No. 37 of The Consolidation Coal Co. John Csalkovieh, Trackman and Timberman, 42, Hungarian. Killed instantly by fall of stone and slate. There was no indication that the place was dangerous and the accident was unavoidable.

MONONGALIA COUNTY.

January 6, 1912.—No. 5, of the Elkins Coal & Coke Co. B. Vincenzo, Miner, 29, Italian. Without the knowledge of the foreman, he went to work on a loose crosseut, when in a short time, the roof gave way and covered him by its fall causing instant death.

January 22, 1912.—No. 1 Mine of the Elkins Coal & Coke Co. Joe Perri, Motorman, 28, Italian. He lost control of his motor and attempted to get off and was caught underneath the motor and fatally hurt.

PRESTON COUNTY.

September 16, 1911.—Tunnelton Mine of the Merchants Coal Co. Dominick Costo, Machine Man, 27, Italian. He was riding on a self propelling machine and going into a low place, his head was crushed between the machine and a cross timber.

May 23, 1912.—Newburg Shaft of the Hamilton Coal & Coke Co. William Henry, Driver, 27, American. This man was presumably on his way out with a loaded car when he was caught by a fall of roof coal and slate, completely covering him and causing instant death. There were no witnesses.

June 25, 1912.—Austen No. 2 Mine of the Austen Coal & Coke Co. Paul Rome, Miner, 20, Italian. He and his fellow workman had just cut a cross-cut

through, when a piece of rock dropped out and caught him, causing instant death.

RANDOLPH COUNTY.

March 1, 1912.—Weaver No. 1 Mine of the Davis Coal Co. Albert Donaldson, Chaser, 15, American. This boy was riding in a car when a small piece of slate fell from the roof and hit him on the head, knocking him off the car and he was crushed between the car bumper and the rail.

March 18, 1912.—No. 2 mine of the Davis Colliery Co. Fred Phillip, Miner, 40, Italian. Instantly killed by fall of slate, which was unforeseen and unavoidable.

TUCKER COUNTY.

August 4, 1911.—Thomas No. 23 Mine of the Davis Coal & Coke Co. Joe Dennis, Miner, 40, Letvich. He undertook to remove the coal and let the bone and top coal stand, when the top coal fell on him and crushed him to death.

August 18, 1911.—No. 39 of the Davis Coal & Coke Co. W. H. Allen, Miner, 47, American. He was handling rope at the top of shaft, when in some way, the rope jerked him down shaft and he fell 200 feet and was killed.

August 31, 1911.—Coketon No. 36 of the Davis Coal & Coke Co. Larry Pezzonite, Miner, 39, Italian. Instantly killed by fall of slate.

October 3, 1911.—Coketon No. 26 of the Davis Coal & Coke Co. Emanuel Harris, Miner, 34, Negro. He was caught by fall of roof while in his working place. A purely unavoidable accident.

October 24, 1911.—Thomas No. 34 of the Davis Coal & Coke Co. John Shultz, Miner, 27, Polish. Instantly killed by fall of top coal.

February 12, 1912.—No. 36 of the Davis Coal & Coke Co. Fartinot Tasso, Miner, 46, Italian. Instantly killed by fall of slate, a purely unavoidable accident, as the place was well timbered.

February 17, 1912.—Douglass No. 2 of the Cumberland Coal Co. Sam Barrett, Coupler, 35, Italian. Was re-tracking cars when rope broke, the grade being very steep and in the resulting wreck, Barrett was struck and instantly killed.

TAYLOR COUNTY.

December 28, 1911.—Rosemont of the Rosemont Coal Co. Mike Zeborah, Miner, 35, Slav. He fired a blast which, however, did not remove the coal. He then attempted to further undercut for the purpose of getting it loose, when a mass fell on him, fatally injuring him. He died in the Miners Hospital the same day.

June 10, 1912.—Wendel No. 4 of the Maryland Coal Co. of West Virginia. Dene Todoror, Loader, 38, Roumanian. He disregarded orders to set props and was instantly killed by fall of slate.

UPSHUR COUNTY.

August 2, 1911.—Red Rock Mine of the Red Rock Fuel Co. L. R. Brooks, Miner, 37, American. Accidently struck a live wire while lifting a car and was electrocuted.

GRANT COUNTY.

January 4, 1912.—Henry No. 22 Mine of the Davis Coal & Coke Company.

Frank Chucci, Miner, 19, Italian. Shot accidentally discharged while he was preparing to fire and it resulted in his death.

GILMER COUNTY.

May 24, 1912.—Brackett Mine of South West Virginia Coal Co. Goff Frame, Miner, 28, American. He went back on shot too soon and was instantly killed by fall of slate.

CLAY COUNTY.

October 2, 1911.—Rich Run Mine of the Elk River Coal & Lumber Co. Horace Steorts, Machine Runner, 22, American. In attempting to pick a lump of coal from the rib, he stepped on the cutter bar of the machine and his leg was cut off at the hip. He died next day.

PUTNAM COUNTY.

July 21, 1911.—Big Otto No. 3 of The Otto Marmet Coal & Mining Co. Edward Pendleton, Miner, 39, Negro. He disregarded warning that the roof was dangerous and was instantly killed by its fall.

January 3, 1912.—Big Otto No. 1 of The Otto Marmet Coal & Mining Co. J. Hezreacel McCormack, Miner, 25, American. Instantly killed by fall of slate. He had been warned of the danger.

March 29, 1912.—Manila Mine of the Plymouth Coal & Mining Co. William Hill, Miner, 40, American. Instantly killed by fall of slate.

MASON COUNTY.

March 19, 1912.—Linden Mine of the Hutchinson Coal Co. Joseph Pierce, Machine Helper, 28, American. Instantly killed by fall of slate, which fell without warning.

BOONE COUNTY.

April 26, 1912.—Webb Mine of the Webb Coal Mining Co. Anderson Ward, Machine Helper, 29, Negro. The victim was alone when his death occurred, but the machine man, who was several hundred feet away heard him cry out and ran to him at once. He found him lying unconscious and immediately summoned the doctor, who pronounced him dead, but could not determine what had caused it. It is thought he touched an electric wire.

KANAWHA COUNTY.

July 19, 1911.—Raccoon No. 1 of the Cabin Creek Consolidated Coal Co. Bernard Savon, Loader, 31, Italian. The deceased was sitting on rear end of car when the back of his neck touched a trolley wire and he was electrocuted.

July 6, 1911.—No. 1 of the Imperial Colliery Co. A. S. Williams, Miner, 40, American. Without sufficient props, he worked under top coal and it fell on him causing injuries from which he died on the 27th July, 1911.

July 25, 1911.—Horton No. 2 of the Wyatt Coal Co. Davy C. Jenkins, Machine Runner, 31, Negro. He was caught in machine and was killed by the current before assistance could get to him.

August 2, 1911.—Caledonia Mine of the Cabin Creek Consolidated Coal Co. George Schylaski, Loader, 22, Polish. Instantly killed by fall of slate.

August 7, 1911.—Belleclare of the Cabin Creek Consolidated Coal Co. William Frisby, Miner and Laborer, 25, American. He was riding on trip when several cars became disconnected, one of them being the car on which he was riding. The cars derailed and when found, Frisby was lying under one of them, was unconscious and lived only a few minutes.

August 23, 1911.—No. 2 of the Hughes Creek Coal Co. Grover Rutledge, Loader, 19, American. He was injured by fall of slate and died several hours afterwards.

September 7, 1911.—No. 1 Mine of the Republic Coal Co. Roman Ziska, Miner, 40, Roumanian. Fatally injured by fall of slate and died from the injuries on September 27th. He had neglected to remove this piece of slate before working under it.

September 8, 1911.—Splint Mine of the Carbon Coal Co. Tom Bradshaw, Miner, 20, Negro. He was assisting motorman to put car on track and set some powder in car when motor started, the powder exploded fatally injuring him and he died on the 11th.

September 16, 1911.—Ronda Mine of the Coalburg Colliery Co. Bonner T. Ebble, Motor Helper, 17, American. He was riding on front end of motor and tried to step off to throw switch, when he lost his balance and fell in front of motor. Motor was running slowly, but it was impossible to stop it and it ran over Ebble, causing instant death.

September 19, 1911.—No. 3 of the West Virginia Colliery Co. Spencer Stanley, Loader, 19, American. Instantly killed by fall of slate. He had examined the roof and pronounced it safe.

October 27, 1911.—No. 3 of the Carbon Coal Co. Thomas Nisbet, Miner, 24, American. He, with a fellow workman had made a cut and fired two shots and Nisbet went to corner at pillar to cut corner out. He had only made two or three strokes with his pick when slate fell killing him instantly.

January 12, 1912.—North Mine of the Winifrede Coal Co. William Green, Miner, 38, American. Instantly killed by fall of slate, which was unforeseen and unavoidable.

January 15, 1912.—Raceoon No. 2 West of the Cabin Creek Consolidated Coal Co. Robert Hensley, Motor Helper, 15, American. He was riding an empty motor trip and the car in which he was jumped the track. He jumped out of the car and fell underneath it and was fatally injured, dying in five hours after accident.

January 29, 1912.—Paint Creek Mine of the Paint Creek Collieries Co. Edward Toney, Miner, 29, American. Instantly killed by fall of slate.

February 3, 1912.—Empire Mine of the Cabin Creek Consolidated Coal Co. Andrew Gillon, Machine Runner, 32, American. Fatally injured by fall of slate. He died on February 23, 1912.

February 19, 1912.—No. 2 of the Hughes Creek Coal Co. Vernon Jones, Miner, 17, American. Instantly killed by fall of slate.

February 20, 1912.—No. 5 Mine of the Republic Coal Co. Ras Smith, Loader, 35, American. He had fired a shot and worked under the draw slate without taking it down. Was instantly killed by its fall.

March 19, 1912.—Banner Mine of the Paint Creek Collieries Co. Robert Montgomery, Machine Runner, 37, American. Instantly killed by fall of slate. This was an unavoidable accident. The place had been examined by the mine foreman a short time before and pronounced safe.

March 19, 1912.—Banner Mine of the Paint Creek Collieries Co. Edward Byers, Machine Runner, 27, American. Fatally injured by fall of slate. The entry was well posted to within 10 feet of the face, but there was a slip in the slate at the face, which caused it to fall. The mine foreman had been in the place that afternoon and considered it safe.

May 13, 1912.—Buckeye Mine of the Cabin Creek Consolidated Coal Co. Bruce Jarrell, Driver, 30, American. He was riding on front end of loaded car and in some way fell off. The car passed over him, crushing him to death.

May 14, 1912.—No. 1 Mine of the Republic Coal Co. Victor Cambustor, Brakeman, 20, Italian. He was riding in mine car, when it jumped track, knocked out post and caused slate to fall on him, killing him.

June 10, 1912.—No. 104 of the Sunday Creek Co. E. M. Bruce, Miner, 31, American. He neglected to post carefully the place and was killed by fall of draw slate.

June 14, 1912.—No. 3 Mine of the Kelleys Creek Collieries Co. Monroe Frazier, Driver, 28, Negro. He was taking out three cars loaded with coal, got off car he was riding on and in attempting to get on again, fell and was dragged about fifty feet and instantly killed.

June 15, 1912.—No. 1 Mine of the Imperial Colliery Co. James Jolly, Driver, 17, American. He fell from front end of car and was fatally injured, dying next day.

FAYETTE COUNTY.

July 10, 1911.—Scarbro Mine of the White Oak Fuel Co. Joe Zamany, Miner, 22, Polish. He was warned to stand to one side till top coal was pulled down, but he disregarded warning and began to work underneath the loose coal, which fell on him and broke his neck. Death immediately ensued.

July 25, 1911.—Buffalo Mine of the Fire Creek Coal & Coke Co. James Stills, Miner, 37, Negro. He fell from run-a-way trip on tramroad on outside of mine and was thrown against rocky bank, rolled back under car, was run over and killed.

August 3, 1911.—Red Ash Mine of the Scotia Coal & Coke Co. George Walker, Laborer, 19, Negro. Working under loose slate, which he had been cautioned to post, he was crushed by its fall and instantly killed.

August 10, 1911.—Turkey Knob Mine of the Turkey Knob Coal Co. Henry Paul, Jr., Motor Helper, 16, American. He got off of motor to open trap door and stood so close to the track that he was struck in the temple by a steel rail that was being hauled on top of trip. His skull was fractured and he died immediately.

August 11, 1911.—Sun Mine of the New River Collieries Co. Mike Hendrick, Miner, 33, Pole. After a shot as the top coal did not come down, he began digging under it, when it came down on him and caused instantaneous death.

August 26, 1911.—Fire Creek Mine of the Fire Creek Coal & Coke Co. Lee Smith, Miner, 17, American. There was no witnesses to this accident, but he was found lying by the side of the track, unconscious. He died that evening at his own horse. It is presumed that he was riding on car and fell off. Riding on car was against orders.

September 1, 1911.—Carlisle Mine of the White Oak Fuel Co. Harry Hill,

Laborer, 23, American. In attempting to replace derailed car, his back came in contact with a live wire and he was electrocuted.

September 1, 1911.—No. 112 of the Sunday Creek Co. Ray Hernsby, Motor Helper, 16, American. Some timbers that had been used in putting empties on track were left lying there and when motor and five loaded cars came along, they struck these timbers and were thrown off the track. Ray Hernsby was riding on rear end of motor and was instantly killed in the wreck.

September 12, 1911.—Minden No. 3 Mine of the New River & Pocahontas Cons. Coal Co. Walter L. Crawford, Motorman, 22, American. The trolley came off the wire and in trying to replace it, he was instantly electrocuted.

September 16, 1911.—Carlisle Mine of the White Oak Fuel Co. William Pelter, Motorman, 18, English. He shut the power off his motor and stepped off in front of it to get his watch which he had left on a "header". He fell and the still moving motor which passed over his body, killing him.

September 19, 1911.—Meadow Fork Mine of the Meadow Fork Coal Co. Joseph L. Boggess, Miner, 50, American. This accident was due to his careless setting of post with full knowledge of danger. Slate fell on him killing him.

September 21, 1911.—Sugar Creek Mine of the Sugar Creek Coal & Coke Co. Walter Bragg, Miner, 30, American. Instantly killed by fall of "kettle bottom."

September 21, 1911.—Parral Mine of The Stuart Coal Co. William Graham, Cager, 26, American. He touched live wire with his shoulder, while uncoupling loaded cars to put on cage, and was instantly electrocuted.

September 26, 1911.—No. 2 Mine of the New River & Pocahontas Cons. Coal Co. Andrew Poindexter, Miner, 36, Negro. Instantly killed by fall of slate.

September 26, 1911.—Blume Mine of the Blume Coal & Coke Co. James Beaver, Miner, 25, American. Instantly killed by fall of slate. A purely unavoidable accident.

September 29, 1911.—Layland No. 2 of the New River & Pocahontas Cons. Coal Co. Winston Bowles, Miner, 32, Negro. Instantly killed by fall of slate.

September 30, 1911.—No. 3 of the Boomer Coal & Coke Co. Louis Collins, Miner, 23, Italian. He went back on shot and was fatally injured by fall of slate. He died in the Charleston Hospital October 24th.

October 6, 1911.—Herberton Mine of The Herbert Collieries Co. P. E. Hipe, Loader, 17, American. Instantly killed by fall of slate.

October 12, 1911.—No. 2 Mine of the Loup Creek Colliery Co. Pietra Demasi, Miner, 28, Italian. Instantly killed by fall of coal.

October 18, 1911.—Searbro Mine of the White Oak Fuel Co. Andy Biernasky, Machine Helper, 27, Austrian. He touched a live wire on machine and was electrocuted.

October 24, 1911.—Derryhale of the McKell Coal & Coke Co. George Kechman, Slateman, 49, Hungarian. Instantly killed by fall of slate.

October 30, 1911.—Collins No. 1 Mine of the Collins Colliery Co. Alex Holland, Driver, 35, Negro. He was driving car with mules, when it is supposed he fell off the car in some way and was dragged along for some distance and killed.

November 4, 1911.—No. 1 Mine of the Milburn Coal & Coke Co. John Bird, Miner, 24, Italian. He was warned to take down slate before loading car, but

refused to listen to the warning and was crushed by fall of slate and fatally injured, dying on the 7th.

November 10, 1911.—Dictz Mine of the Dictz Colliery Co. John G. Kincaid, Miner, 23, American. This man was employed to shoot slate, but the driver to let him make a trip with his mule as he wanted to learn to drive. While near a trap door, he aimed to go between the car and trap door and was caught by the car, receiving injuries so serious that he died on the 19th.

November 24, 1911.—No. 4 Mine of the Boomer Coal & Coke Co. P. E. Hall, Carpenter, 32, American. He was doing some construction work on the tippie. In attempting to pick up a coil of rope on the railroad track, he was caught between railroad car and a concrete wall and instantly killed.

November 29, 1911.—Minden No. 2 Mine of the New River and Pocahontas Cons. Coal Co. Robert Burgess, Miner, 20, American. Instantly killed by fall of slate.

December 12, 1911.—Nova Scotia Mine of The Ganley Mountain Coal Co. Moses Hopkins, Back Hand, 17, Negro. Instantly killed by fall of "kettle bottom". The place was thought to be perfectly safe and had been examined just before the boy went under it.

December 13, 1911.—Layland No. 1 of the New River and Pocahontas Cons. Coal Co. Tom Persha, Miner, 25, Austrian. He was attempting to retrack derailed loaded ear and when the motor pulled, the ear swung away from track and caught him between ear and rib.

December 14, 1911.—Nuttall Mine of the Nuttallburg Collieries Co. Joe Zoleski, Miner, 24, Polish. This man was killed in a place that had just been examined and pronounced safe. It is thought that he took out a post that might had been in his way while loading, as a post was lying near ear.

December 16, 1911.—Stuart Mine of the Stuart Colliery Co. Edgar Morgan, Trapper, 15, English. This boy was riding against orders on the cars, when coupling broke and cars ran back into door. He was fatally injured and taken to his home, where he died that night.

January 11, 1912.—Oakwood Mine of the White Oak Fuel Co. William Stevens, Loader, 16, American. He was in the act of loading a car with coal, when he was killed by the fall of a large piece of bone coal.

January 12, 1912.—No. 1 Mine of The Low Moor Iron Co. of Virginia. James Ash, Miner, 24, American. Instantly killed by fall of slate.

January 27, 1912.—Brown Mine of the Brown Coal Co. Henry Wedderburn, Motorman, 28, American. While in the act of replacing trolley pole on wire, he struck the back of his head against wire and was knocked off of motor and instantly killed.

February 2, 1912.—No. Mine of the Christian Colliery Co. Silas Searorough, Miner, 39, American. Instantly killed by fall of coal.

February 4, 1912.—Stuart Mine of the Stuart Colliery Co. Frank Pedro, Slateman, 21, Italian. Instantly killed by fall of slate.

February 7, 1912.—Turkey Knob of the Turkey Knob Coal Co. Oscar Hays, Miner, 28, American. Instantly killed by fall of draw slate.

February 22, 1912.—Minden No. 2 Mine of the New River & Pocahontas Cons. Coal Co. Randolph Covaro, Miner, 36, Polish. Instantly killed by fall of slate.

February 4, 1912.—No. 4 Mine of the New River & Pocahontas Cons. Coal Co. Mike Jobritz, Miner, 23, Litvich. This man was shooting bottom slate to

make a breakthrough and had knocked some posts out to get to work and went under weakened roof, although warned not to do so, and was instantly killed by fall of slate.

March 16, 1912.—Minden No. 3 Mine of the New River & Pocahontas Cons. Coal Co. James Crowder, Brakeman, 22, American. He was riding on front end of motor and jumped off and fell under it, derailing the motor, which fell over his body, causing instant death.

March 19, 1912.—No. 112 of the Sunday Creek Company. Wort Milton, Machine Helper, 28, American. He and a fellow workman stopped work to eat lunch and set down opposite a cross cut which a man was preparing to shoot down. They told him not to shoot until they had finished cutting the 12th entry, but he seemed to have misunderstood them and claims that they told him to shoot, which he did. Instantly killing Milton.

March 27, 1912.—Oakwood Mine of the White Oak Fuel Co. William Woods, Miner, 50, American. Instantly killed by fall of slate. He heard the rock begin to break and ran to get out of the way, but was caught.

April 16, 1912.—Slater Mine of the Ephriam Creek Coal & Coke Co. William Daniel Walker, Back Hand, 15, Negro. He was riding on loaded trip, when five or six cars were derailed at frog on the outside of pit mouth, and he fell underneath and was crushed, dying immediately.

April 24, 1912.—Derryhale Mine of the McKell Coal & Coke Co. John Frank, Loader, 21, Hungarian. This man was warned by timberman to leave the face until rock was timbered, but he ignored the warning and passed under the rock, which fell on him with fatal results.

May 11, 1912.—Eureka No. 14 of the Great Kanawha Colliery Co. Tony George, Miner, 35, Italian. Instantly killed by fall of rock.

May 14, 1912.—Lyman Mine of the Prudence Coal Co. Joseph Martin-cowitch, Miner, 58, German. Instantly killed by fall of stone.

May 15, 1912.—No. 3 of the New River & Pocahontas Cons. Coal Co. William Bailey, Miner, 40, American. He neglected to set posts and was killed by fall of top coal.

May 5, 1912.—Derryhale Mine of the McKell Coal & Coke Co. Frank Frenk, Slateman, 31, Hungarian. He was working under roof that seemed on examination to be perfectly safe, but the slate fell on him and instantly killed him.

May 20, 1912.—Baby Mine of Mt. Hope Coal & Coke Co. Paul Raimand, Miner, 21, Polish. He was taking down a piece of slate with pick when it fell and crushed him to death.

June 15, 1912.—Collins No. 1 Mine of the New River Co. Jake Barbara, Miner, 27, Polish. Instantly killed by fall of coal.

June 24, 1912.—No. 5 Mine of the New River & Pocahontas Cons. Coal Co. Steve Linick, Machine Runner, 21, Russian. Injured by fall of slate and death resulted in a half hour.

RALEIGH COUNTY.

August 1, 1911.—Shaft Nos. 1 and 2 Mine of the E. E. White Coal Co. Vaden Perkins, Brakeman, 18, Negro. He was thrown from car and killed in consequence of his failing to adjust switches, which caused the car to be derailed.

August 8, 1911.—No. 2 Mine of the Piney Mining Co. Johnie Jennings,

Back Hand, 18, Negro. He was warned to leave place because the roof was not safe, but he disregarded warning and was killed by fall of coal.

September 21, 1911.—Sidney Mine of the McKell Coal Co. Albert Carmen, Trapper, 16, American. He ran to throw switch for the motorman and in so doing fell down and the motor passed over him with fatal results.

October 31, 1911.—No. 4 Mine of the Raleigh Coal & Coke Co. Dave Washington, Miner, 40, American. Neglecting to take down slate, it fell on him with fatal results.

November 3, 1911.—Graham Mine of the McKell Coal & Coke Co. Homer Wygal, Laborer, 20, American. Instantly killed by fall of slate. The room was well timbered and the accident was unavoidable.

November 14, 1911.—Cranberry Mine of the Cranberry Fuel Co. John Surbliss, Miner, 50, Litvich. Instantly killed by fall of draw slate.

November 25, 1911.—Tams Mine of the Gulf Smokeless Coal Co. Robert Branch, Miner, 30, Negro. He was undercutting coal, cut being in about three feet, when coal fell before he could crawl out. He was instantly killed.

December 1, 1911.—Bailey-Wood Mine of the Bailey-Wood Coal Co. Peter Koswick, Miner, 23, Russian. He disobeyed instructions of foreman to set posts before shooting and was killed in consequence by fall of slate.

December 13, 1911.—Mabscott Mine of the New River Co. Quinn Jones, Miner, 56, Negro. Instantly killed by fall of slate.

December 16, 1911.—Dorothy Mine of the Four States Coal & Coke Co. Ben-eretta Paletta, Brakeman, 26, Italian. He was riding on top of motor when he jumped off without the knowledge of the foreman and motor-runner who were with him. He fell in the middle of the track and motor ran over him, instantly killing him.

December 31, 1911.—Eccles No. 3 Mine of the New River Collieries Co. Daniel Campbell, Timberman, 26, American. He was operating motor on his own responsibility without orders from the mine foreman, lost his self-control and exclaimed to brakeman that he could not apply brake. He attempted to jump off the motor and his foot caught, throwing him under motor and he was killed.

January 5, 1912.—Sullivan Mine of the Sullivan Coal & Coke Co. Dick Thornton, Miner, 50, Scotch. Fatally injured by fall of slate and died next day.

January 13, 1912.—No. 6 of the Raleigh Coal & Coke Co. Burt Scott, Miner, 25, American. He failed to take down draw slate and it fell on him, causing his death.

January 13, 1912.—Eccles No. 6 Mine of The New River Collieries Co. Coritore Sabastina, Miner, 22, Italian. He neglected to set a header after making a cut and was fatally injured by fall of slate and died a short time afterwards.

January 13, 1912.—No. 6 Mine of the Raleigh Coal & Coke Co. Will Reed, Miner, 45, American. He neglected to take down draw slate before working under it and was injured by its fall and died on the next day.

January 17, 1912.—Shaft mine of the E. E. White Coal Co. Harrison Hancock, Trip Rider, 22, Negro. He was running along beside ear with his hand on the ear and when the motorman took up slack it pulled him under the ear and he was fatally hurt and died on the 19th.

January 20, 1912.—Bailey-Wood Mine of the Bailey-Wood Coal Co. J. E. Stump, Driver, 18, American. Is supposed to have been struck by a piece of flying coal from a run-a-way trip of loaded cars as they struck a car standing on the side track, where the deceased was standing at the time. He was instantly killed.

March 9, 1912.—Tams Mine of the Gulf Smokeless Coal Co. Andrew Wilson, Miner, 26, American. Fatally injured by fall of slate and died in three hours.

March 22, 1912.—Graham Mines of the McKell Coal & Coke Co. John Varasky, Miner, 30, Russian. Instantly killed by fall of slate.

March 30, 1912.—No. 1 Shaft Mine of the E. E. White Coal Co. George Clemens, Loader, 18, Negro. Instantly killed by fall of "horseback"—a purely unavoidable accident.

April 19, 1912.—Eekels No. 9 Mine of the New River Collieries Co. Howard Houston, Loader, 26, Negro. He touched live wire and was electrocuted.

April 22, 1912.—Shaft Mine of the E. E. White Coal Co. John Robinson, Miner, 22, Negro. He disobeyed orders to set brakes on two loaded cars and they ran into motor on which he was riding. He attempted to jump, but was caught between motor and cars and received injuries from which he died on the 25th in the McKendree Hospital.

April 29, 1912.—No. 3 Mine of the Raleigh Coal & Coke Co. Rufus Hicks, Slateman, 24, American. The deceased on his own account took an ax and commenced to chop a post that was supporting the draw slate, though warned not to do so. This resulted in the slate falling and instantly killing him.

May 17, 1912.—Mabscott Mine of the Mabscott Coal & Coke Co. John Lozer (or Loseum), Miner, 41, Polish. Instantly killed by fall of slate.

May 21, 1912.—Dorothy Mine of the Four States Coal & Coke Co. Bill Condos, Miner, 24, Greek. This man with a fellow workman (Tom Labue) had put a shot in the top coal, which did not knock it down, but sprung it from the slate, they then used a lever to prize the coal down, when a piece of slate fell, causing death of both of them.

May 21, 1912.—Dorothy Mine of the Four States Coal & Coke Co. Tom Labue, Miner, 29, Greek. This man with a fellow workman, (Bill Condas) had put a shot in the top coal, which did not knock it down, but sprung it from the slate. They then used a lever to prize the coal down, when a piece of slate fell, causing death of both of them.

June 3, 1912.—Sarita Mine of the Four States Coal & Coke Co. James Harmoya, Laborer, 51, Italian. This man was making repairs on the supply track running up the mountain side to the mines. He had been warned to watch the supply truck that was going up and down the track, but he became careless and was struck by it and received injuries from which he died at the Sheltering Arms Hospital on June 5th.

June 10, 1912.—No. 3 Mine of the Slab Fork Coal Co. Anthony Cattaneo, Miner, 53, Italian. Instantly killed by fall of slate. He was not in his working place and was violating rules and regulations of the company.

June 14, 1912.—No. 6 Mine of the Raleigh Coal & Coke Co. Frank Wac-lasky, Trip Rider, 19, Polish. He jumped off of trip to throw switch and the empty cars caught him and he was instantly killed.

June 20, 1912.—No. 4 Mine of the Blue Jay Lumber Co. Plas Sewelsberry,

Back Hand, 60, American. Fatally injured by fall of top coal, which resulted in his death on June 24th.

June 19, 1912.—No. 6 Mine of the Raleigh Coal & Coke Co. Adam Somitz, Motorman, 22, Polish. In getting off of motor, he in some way struck live wire and was electrocuted.

June 25, 1912.—Dorothy Mine of the Four States Coal & Coke So. Steve Cozmore, Miner, 33, Hungarian.

McDOWELL COUNTY.

July 5, 1912.—Jed Mine of the Jed Coal & Coke Co. John Damron, Miner, 22, American. Instantly killed by fall of "kettle bottom".

July 6, 1912.—Shawnee Mine of the Shawnee Coal & Coke Co. Victor Bongo, Miner, 32, Roumanian. Instantly killed by fall of slate.

July 7, 1912.—Elk Ridge Mine of the Elk Ridge Coal & Coke Co. Nat Coleman, Miner, 35, Negro. Instantly killed by fall of slate, which was unforeseen and unavoidable.

July 8, 1911.—No. 4 Mine of the United States Coal & Coke Co. Joe Demas, Miner, 27, Italian. He was pulling a loaded ear, when it caught a post and pulled it out, letting the slate fall on him. He was instantly killed.

July 25, 1911.—Upland Mine of the Upland Coal & Coke Co. Granville Pinchback, Brakeman, 35, Negro. He was braking trips for the day and two cars were wrecked. He stepped in the narrow side and was crushed to death between the cars and the rib.

July 31, 1911.—No. 11 Mine of the United States Coal & Coke Co. John Wetoni, Miner, 25, Roumanian. Instantly killed by fall of "kettle bottom."

August 3, 1911.—Reynolds Mine of the Reynolds Mining Co. John Miller, Miner, 40, American. Instantly killed by fall of slate.

August 7, 1911.—No. 11 Mine of the United States Coal & Coke Co. Sherman Stewart, Driver, 19, American. A ear which had been cut off from a trip, wrecked, knocking out three posts and causing slate to fall on Stewart and he was instantly killed.

August 14, 1911.—Blackstone Mine of the Superior Pocahontas Coal Co. John Trosky, Miner, 35, Hungarian. He disobeyed orders to set timbers and was instantly killed by fall of slate.

August 14, 1911.—Indian Ridge Mine of the Indian Ridge Coal & Coke Co. J. R. Wade, Miner, 35, Negro. Instantly killed by fall of slate. This slate fell without warning and seemed perfectly safe.

August 19, 1911.—No. 10 Mine of the United States Coal & Coke Co. Joseph Aleck, Loader, 32, Hungarian. Fatally injured by fall of slate and died on the 25th.

August 21, 1911.—No. 2 Mine of the Pulaski Iron Co. Joe Bess, Slateman, 55, Italian. He was cleaning up after a fall of slate, when a second fall occurred and he was instantly killed by it.

August 21, 1911.—No. 2 Mine of the Pulaski Iron Co. Sam Fremont, Slateman, 26, Italian. He was cleaning up after a fall of slate, when a second fall occurred and he was instantly killed by it.

August 25, 1911.—Lick Branch Mine of the Pocahontas Cons. Collieries Co. Sam Berger, Miner, 33, Negro. Instantly killed by fall of slate.

August, 28, 1911.—No. 1 Mine of the J. B. B. Coal Co. Will Wadwell, Miner, 25, Hungarian. Instantly killed by fall of slate.

August 31, 1911.—No. 4 Mine of the United States Coal & Coke Co. Ernest King, Machine Helper, 23, Negro. Instantly killed by fall of slate.

September 5, 1911.—Keystone Mine of the Keystone Coal & Coke Co. Frank Bori, Miner 25, Italian. While climbing into motor, his hand in some way came in contact with a live wire and he was electrocuted.

September 6, 1911.—No. 3 Mine of the United States Coal & Coke Co. Julin C. Czamatta, Rock Foreman, 27, Polish. He had charged four holes, three of them went off, but one failed to fire. In his hurry to set off the shot, he connected wires from misshot without disconnecting his cable wire from the machine wire and did not send any one to guard against the switch being put in. The motorman following his instructions, put in the switch, the shot went off and instantly killed Czamatta.

September 9, 1911.—Lick Branch Mine of the Pocahontas Cons. Collieries Co. George Slozaski, Miner, 30, Polish. Fatally injured by fall of coal. He died later.

September 18, 1911.—Empire Mine of the Empire Coal & Coke Co. Tom Kitson, Bratticeman, 28, English. Instantly killed by fall of "kettle bottom" while preparing to put up a canvas. The place had been examined by the fire boss just before the accident and reported safe. An unavoidable accident.

October 2, 1911.—Henrietta Mine of the Henrietta-Pocahontas Coal Co. Charles O. Bowles, Miner, 28, American. Although there were plenty of props in his room, he neglected to set them in spite of frequent warnings from the mine foreman, and was instantly killed by fall of slate.

October 2, 1911.—No. 2 Mine of the New River & Pocahontas Cons. Coal Co. George Wilson, Miner, 23, American. Instantly killed by fall of slate.

October 5, 1911.—No. 1 Mine of the New River & Pocahontas Cons. Coal Co. Simon Crutchfield, Brakeman, 19, Negro. He was riding on top of locomotive and was warned by the motorman of a low place in the roof, which they were approaching and advised to change his position. This, he failed to do and was caught between roof and locomotive and killed.

October 5, 1911.—Rolfe Mine of the Pocahontas Cons. Collieries Co. Edward Boles, Machine Helper, 21 American. He was riding on motor and when passing under trolley wire at entry, failed to lower his head, came in contact with wire and was electrocuted.

October, 6, 1911.—Mohawk Mine of the Mohawk Coal & Coke Co. John Saunders, Slateman, 17, American. Fatally injured by fall of slate and died later on the same day. The roof appeared to be perfectly safe, and the accident was unavoidable.

October 9, 1911.—Tidewater Mine of the Tidewater Coal & Coke Co. Sam Kesboris, Slateman, 20, Russian. This man was standing between two car tracks while the driver was going in with his team. The driver called to the man to get over on the other track, but instead he went in the opposite direction causing the mule to turn off the track pulling car off and mashing Kesboris against the rib. He died in the Miners' Hospital at Welch the same day.

October 11, 1911.—Gilliam Mine of the Gilliam Coal & Coke Co. Obie Jones, Brakeman, 17, American. His duty was to cut mules loose from cars at a certain place in the mines and get off. He failed to do either and the car wrecking, killing him.

October 13, 1911.—Powhatan Mine of the Powhatan Coal & Coke Co. Nick Lusivanis, Miner, 45, Greek. He was crushed between mine car and rib, while

loading car, the car shipping back and catching him between the face of place.

October 13, 1911.—Eureka Mine of the Eureka Coal & Coke Co. William Hoskon, Miner, 30, Russian. Was working under-cut when coal fell on him with fatal results.

October 14, 1911.—Empire Mine of the Empire Coal & Coke Co. James Guthrie, Contractor, 51, Scotchman. Instantly killed by fall of slate.

November 6, 1911.—Pincy Drift of the Algoma Coal & Coke Co. Wash Stratton, Miner, 33, Negro. Instantly killed by fall of slate.

November 6, 1911.—Indian Ridge Mine of the Indian Ridge Coal & Coke Co. John Shaak, Miner, 30, American. Instantly killed by fall of "kettle bottom".

November 7, 1911.—Shamokin Mine of the Pocahontas Cons. Coal Co. Salvatore Bekast, Slateman, 37, Italian. He was removing slate without examining slate overhead, when the latter fell and death resulted instantly.

November 14, 1911.—Shamokin Mine of the Pocahontas Cons. Coal Co. William Harris, Lander, 30, Negro. This accident happened on the outside of the mine. He was standing on larry track and saw the larry coming. The larry runner called to him to get off the track, cut off the current and applied brake, but Harris waited until the larry was close to him before jumping and he fell between rails and larry ran over him, killing him.

November 17, 1911.—Elk Ridge Mine of the Elk Ridge Coal & Coke Co. William Davis, Miner, 35, American. Instantly killed by fall of slate while trying to dislodge it.

November 18, 1911, at 11 o'clock A. M. the following men were killed in the Bottom Creek Mine operated by the Bottom Creek Coal & Coke Co. The accident was caused by an explosion of dust in an abandoned room on No. 11 entry, which was ignited by an open lamp carried by some member of an engineering corps then working in Room No. 7 of Entry 11:

Martin Golish, Miner, 29, Harwatt.

Frank Golish, Miner, 33, Harwatt.

Peter Krozinski, Miner, 51, Lithuanian.

Philip Zalenik, Miner, 57, Harwatt.

Gregor Amola, Trackman, 22, Russian.

Frank Holavaca, Slateman, 18, Russian.

Joe Vanco, Miner, 50, Slav.

Frank Mollica, Miner, 38, Italian.

Dan Campbell, Miner, 28, Negro.

Guy Bratcher, Driver, 23, Negro.

R. C. Hubbard, Miner, 27, Negro.

Henry Hubbard, Miner, 21, Negro.

Burton, Moore, Miner, 29, Negro.

Steve Arouchik, Miner, 24, Russian.

W. H. Henderson, Mining Engineer, 28, American.

C. L. Brewer, Mining Engineer, 23, American.

Tarben Williams, Mining Engineer, 34, American.

Eugene T. Hervey, Mining Engineer, 23, American.

November 22, 1911.—Peerless Mine of the Peerless Coal & Coke Co. Mike Fewitch, Miner, 30, Slav. Instantly killed by fall of slate.

November 22, 1911.—No. 4 Mine of the Virginia-Pocahontas Coal Co.

De Witt Epperly, Miner, 20, American. He neglected to timber loose slate and it fell on him killing him instantly.

November 28, 1911.—Zenith Mine of the Zenith Coal & Coke Co. Emory Bowers, Brakeman, 19, Negro. This accident occurred out side the mine on the grade from mine to tippie. Bowers attempted to jump back on trip after getting off to take brakes off of cars, fell between cars and was instantly killed.

November 30, 1911.—McDowell Mine of the McDowell Coal & Coke Co. F. Ollieson, Miner, 37, Polish. He fired shot and worked under loose coal without waiting for it to fall and instantly killed by its fall.

December 2, 1911.—Powhatan Mine of the Powhatan Coal & Coke Co. J. A. Harvey, Miner, 52, Negro. Instantly killed by fall of "horseback."

December 2, 1911.—Powhatan Mine of the Powhatan Coal & Coke Co. Miner, 26, Negro. Instantly killed by fall of "horseback."

December 18, 1911.—No. 1 Mine of the J. B. B. Coal Co. Richard Toler, Miner, 34, Negro. He was cutting coal with machine when the slate broke over coal, and caught his head between slate and machine, causing instant death.

December 22, 1911.—Roanoke Mine of the Roanoke Coal & Coke Co. Miner, 42, Slav. Instantly killed by fall of "kettle bottom."

January 3, 1912.—Norfolk Mine of the Pocahontas Cons. Coal Co. Miner, 35, Hungarian. Fatally injured by fall of slate, death ensuing next day.

January 3, 1912.—Lick Branch Mine of the Pocahontas Cons. Coal Co. Dem Pewwick, Miner, 32, Russian. He knocked out a prop which caused another one to fall. The slate gave way and fell on him causing instant death.

January 4, 1912.—McDowell Mine of the McDowell Coal & Coke Co. James R. Heath, Miner, 44, Negro. Instantly killed by fall of slate.

January 4, 1912.—McDowell Mine of the McDowell Coal & Coke Co. O. W. Holly, Miner, 44, Negro. Instantly killed by fall of roof as he was going out of the mine after finishing his day's work. This was bastard sandstone and the roof had not shown any evidence of working and was supposed to be perfectly safe. This was the same fall of slate that killed James R. Heath.

January 5, 1912.—No. 1 Mine of the New River & Pocahontas Cons. Coal Co. Mike Turk, Miner, 31, Italian. Killed by fall of roof, which swung out of props. It was evidently not very well tightened.

January 5, 1912.—East Mine of the United States Coal & Coke Co. Clinton Lester, Car Dropper, 19, Roumanian. He was cleaning coal out from under the conveyor belt, when a piece of the machinery caught his clothing and pulled him into the belt, killing him instantly.

January 13, 1912.—No. 4 Mine of the United States Coal & Coke Co. Frank Falfi, Miner, 20, Hungarian. Instantly killed by fall of "horseback."

January 15, 1912.—Pocahontas-Smokeless Mine of the Pocahontas-Smokeless Coal Co. James Robinson, Miner, 29, American. Instantly killed by fall of slate.

February 2, 1912.—Maher No. 4 Mine of the J. B. B. Coal Co. Charles Smith, Driver, 19, American. He crawled under a ledge of slate and it fell on him and instantly killed him.

February 5, 1912.—North Mine of the Dixon-Pocahontas Fuel Co. John Commith, Shooting Coal, 39, Slav. Instantly killed by fall of draw slate. The draw slate in this place is very treacherous and gives no warning.

February 5, 1912.—Jed Mine of the Jed Coal & Coke Co. W. R. Cottrell, Pumper, 24, American. Instantly killed by fall of slate while traveling in an old entry.

February 19, 1912.—No. 4 Mine of the J. B. B. Coal Co. William O. Riley, Miner, 44, Scotch. He began to load coal too soon after firing shot and was killed by fall of slate.

February 15, 1912.—Elkhorn Mine of the Elkhorn Coal & Coke Co. Earl Podat, Miner, 18, American. Fatally injured by fall of slate and died on February 20th.

February 23, 1912.—Piney Mine of the Algoma Coal & Coke Co. Alex Carter, Slate Helper, 21, Negro. Instantly killed by fall of slate. The roof seemed safe and the slate fell with very little warning.

March 1, 1912.—No. 3 Mine of the Virginia-Pocahontas Coal Co. Paul Dovolschak, Miner, 32, Hungarian. Instantly killed by fall of "horseback."

March 1, 1912.—No. 3 Mine of the Virginia-Pocahontas Coal Co. John Parrish, Tracklayer, 32, American. Instantly killed by fall of "horseback."

March 5, 1912.—North Mine of the Dixon-Pocahontas Fuel Co. Jake Rollins, Trip Rider, 24, Negro. He was riding on empty trip and his head struck cross timber, which resulted in his death.

March 8, 1912.—Lick Branch Mine of the Pocahontas Coal Co. Charley Brantz. Fatally injured by fall of slate and died later in the hospital at Welch.

March 9, 1912.—Piney Mine of the Algoma Coal & Coke Co. Ben Turner, Driver, 24, Negro. He was in front end of loaded car and had unhitched team from car and lost his balance, fell in front of car and was killed.

March 11, 1912.—Big Sandy Mine of the Solvay Collieries Co. Sid Brooks, Driver, 22, American. He worked under loose slate and was killed by its fall.

March 11, 1912.—Big Sandy Mine of the Solvay Collieries Co. S. G. Foster, Miner, 29, American. He worked under loose slate and was killed by its fall.

March 20, 1912.—No. 4 Mine of the J. B. B. Coal Co. Emil McGrath, Miner, 17, American. Assuming the duties of brakeman without authority, he jumped from car over motor and ran to turn switch, slipped and fell on outside of track. The motor ran over him and he was injured so seriously that he died from results of accident on April 2nd.

March 21, 1912.—No. 11 Mine of the United States Coal & Coke Co. Henry Gilbert, Laborer, 23, American. Fatally injured by fall of slate and coal, from which injuries he died eight hours later.

March 26, 1912 at eight o'clock A. M., in the Jed Mine operated by the Jed Coal & Coke Co., the following persons met their death by an explosion of gas and coal dust:

John Fleshman, Track Layer, 35, Negro.

Nick Sted, Miner, 38, Italian.

Andy Varga, Miner, 26, Hungarian.

James Hoynes, Shot Firer, 37, American.

Steve Szatmare, Miner, 27, Hungarian.

R. E. Pennington, Miner, 38, American.

Jacob Sawalski, Miner, 26, Russian.

Sam B. Jefferson, Miner, 28, Negro.

Steve Hayart, Miner, 50, Hungarian.

William Seledia, Miner, 40, Hungarian.

Robert Gillispee, Trackman, 38, American.
Adam Mussick, Miner, 35, Russian.
Steve Mutta, Miner, 32, Hungarian.
John Sammy, Miner, 27, Italian.
William Dembronski, Miner, 33, Russian.
Mike Gydluck, Miner, 25, Italian.
Alex Celaski, Miner, 47, Hungarian.
Joe Ross, Miner, 30, Italian.
Steve Yorkonich, Miner, 22, Slav.
Andy George, Miner, 30, Italian.
Romina George, Miner, 22, Italian.
Andrew Zavreszki, Trackman and Bratticeman, 21, Hungarian.
Frank Galya, Trapper, 17, Hungarian.
Alex Gerantella, Miner, 27, Italian.
Bruna Recase, Trapper, 21, Italian.
James S. Parsons, Miner, 32, American.
William Bell, Miner, 30, American.
Lee Gilman, Miner, 24, American.
Victor Steele, Miner, 22, American.
Valley Lash, Driver, 21, Negro.
Frank Rice, Miner, 26, Not known.
I. C. Gelman, Miner, 28, American.
E. D. McClure, Miner, 30, American.
Will Harris, Miner, 27, American.
William Green, Driver, 25, Negro.
Jack Chandler, Trapper, 17, American.
William F. Helton, Miner, 28, American.
Frank Hill, Driver, 25, Negro.
John Mntto, Miner, 24, Hungarian.
Chas. Chandler, Motorman, 19, American.
Will Chandler, Motorman, 24, American.
James Leeper, Brakeman, 24, Negro.
Sam Hampton, Miner, 28, Negro.
Henry Harris, Trapper, 40, Negro.
Green Terry, Miner, 30, Negro.
Thomas D. Saunders, Bratticeman, 29, American.
W. J. Woodward, Driver Boss, 28, American.
Sol Agnew, Driver, 19, Negro.
Alex Sabo, Miner, 28, Hungarian.
Houston, Jones, Driver, 24, Negro.
William Denton, Turnkeeper, 18, American.
Sterling Martin, Driver, 20, Negro.
Edward Johnson, Driver, 28, Negro.
Kalmon Pop, Miner, 28, Hungarian.
Dominic Flex, Miner, 27, Italian.
Reynolds Flex, Miner, 30, Italian.
Paul Martin, Miner, 28, Hungarian.
Nick Golya, Sr., Brattice and Slateman, 55, Hungarian.
John Agoes, Brattice and Slateman, 21, Hungarian.

Mike J. Pat, Miner, 20, Italian.
Roney Harendoe, Miner, 28, Italian.
Sam Flex, Miner, 22, Italian.
Mike Golya, Track Helper, 22, Hungarian.
Alex Kcsvoich, Miner, 35, Hungarian.
Frank Molnar, Miner, 35, Hungarian.
Giovanni Sovanini, Miner, 36, Italian.
Dominico Perri, Miner, 32, Italian.
Ted Swaby, Bratticeman, 30, Englishman.
John Gugley, Miner, 26, Hungarian.
Joe Burvegi, Trackman, 35, Hungarian.
Frank Spangnola, Miner, 17, Italian.
Charlie Spangnola, Miner, 19, Italian.
Peter Solwaski, Miner, 25, Russian.
Mike Williams, Miner, 28, Polish.
Paul Bodis, Miner, 23, Hungarian.
Alex Soloski, Miner, 24, Russian.
Mike Gogasky, Miner, 50, Russian.
Emmett Terry, Miner, 28, Negro.
Mike Synyto, Miner, 30, Polish.
James Cipery, Miner, 40, Italian.
Wilson Terryale, Miner, 33, Negro.
Mercer Agnew, Miner, 26, American.
George Smith, Miner, 18, American.
Steve Mutta, Miner, 32, Hungarian.

April 4, 1912.—King Mine of the King Coal Co. James Pool, Miner, 24. Unknown. Instantly killed by fall of slate.

April 10, 1912.—No. Mine of the Pulaski Iron Co. Roy Windsor, Driver, 17, Negro. Instantly killed by fall of slate.

April 16, 1912.—Peerless Mine of the Peerless Coal & Coke Co. William Tomasky, Miner, 40, Slav. He went back of shot and the slate fell, killing him instantly.

April 18, 1912.—Zenith Mine of the Zenith Coal & Coke Co. Alfredo Jiniski, Miner, 30, Italian. Instantly killed by fall of slate.

April 19, 1912.—Lick Branch Mine of the Pocahontas Consolidated Coal Co. John Peats, Miner, 23, Italian. Instantly killed by fall of "kettle bottom."

April 18, 1912.—No. 2 Mine of the Keystone Coal & Coke Co. William Rolitch, Miner, 35, Russian. Instantly killed by fall of slate.

April 19, 1912.—Bottom Creek Mine of the Bottom Creek Coal & Coke Co. Mike Colluk, Machine Helper, 21, Russian. Instantly killed by fall of slate.

April 24, 1912.—No. 1 Mine of the Keystone Coal & Coke Co. J. R. Simpson, Slate Foreman, 35, Negro. Instantly killed by fall of slate.

April 27, 1912.—McDowell Mine of the McDowell Coal & Coke Co. William Black, Trackman and Slateman, 48, Negro. He was knocking out posts to take down draw slate. He was warned that the slate was settling and to come out from under it, but he disregarded the warning and was caught by fall and instantly killed.

April 30, 1912.—Peerless Mine of the Peerless Coal & Coke Co. J. E. Williamson, Brakeman, 18, Negro. In attempting to get off of ear his clothing caught and he was thrown on track and run over, sustaining injuries that proved fatal.

May 16, 1912.—No. 1 Tipple of the West Virginia-Pocahontas Coal Co. Kida Rasli, Car Dropper, 24, American. He was dropping loaded car ont from under tippie when the car was about 100 feet below tippie a bolt dropped out of brake beam and it is supposed that when the bolt gave way the brake released so quickly that he lost his balance and fell under the car, which passed over him inflicting such serious injuries that he died next day.

May 20, 1912.—No. 2 Mine of the Central Pocahontas Coal Co. W. H. Wetzcl, Mine Supt., 48, American. He was making an examination of coal at the face of the room, when he was killed by fall of "Horseback."

May 23, 1912.—Big Sandy Mine of the Solvay Collieries Co. Mack Marrs, Loading and cleaning coal at tippie. He was trying to block wheel of a disabled car against instructions, when it rolled on him as it was knocked from under tippie by another car.

May 29, 1912.—Delta Mine of the Pocahontas Cons. Collieries Co. J. B. Jenkins, Track Foreman, 38, American. Fatally injured by fall of slate and died a short time after he was taken from the mine.

May 29, 1912.—Delta Mine of the Pocahontas Cons. Collieries Co. Ellis Akers, Trackman, 25, American. Fatally injured by fall of slate and died a short time after he was taken from the mine.

May 29, 1912.—No. 2 Mine of the J. B. B. Coal Co. John Dowdy, Miner, 22, American. They were using compressed air to drive away the smoke made by a shot and could not hear the warning given by the working of the slate over head. It fell on Dowdy and instantly killed him.

June 1, 1912.—Shawnee Mine of the Shawnee Coal & Coke Co. John Bahdon, Miner, 37, Russian. Fatally injured by fall of slate and died in an hour.

June 10, 1912.—Elk Ridge Mine of the Elk Ridge Coal & Coke Co. Jesse Owens, Miner, 35, Negro. Instantly killed by fall of "kettle bottom."

June 13, 1912.—No. 2 Mine of the Pulaski Iron Co. A. H. Wilson, Timberman, 19, American. Instantly killed by fall of slate.

June 13, 1912.—No. 2 Mine of the Pulaski Iron Co. Robert Greeson,, Slate-man, 39, Negro. While preparing to replace a prop that had been knocked out by a driver, slate fell without warning killing him instantly.

June 15, 1912.—No. 9 Mine of the United States Coal & Coke Co. John Pettish, Bone Picker, 26, Greek. Was electrocuted by short circuiting the current while oiling switch at picking table.

June 17, 1912.—East Side Mine of the Peerless Coal & Coke Co. Dominic Vallora, Miner, 42, Italian. This man put off shot and did not pull the coal. He started to bore another hole and the coal fell on him instantly killing him.

June 17, 1912.—Delta Mine of the Pocahontas Cons. Collieries So. Sam Carpen, Miner, 20, Russian. Fatally injured by fall of coal and died in about an hour.

June 17, 1912.—Roanoke Mine of the Roanoke Coal & Coke Co. Alonza Jones, Miner, 26, Negro. Instantly killed by fall of slate.

MERCER COUNTY.

July 14, 1911.—Mill Creek Mine of the Mill Creek Coal & Coke Co. George E. Smith, Miner, 37, Negro. Instantly killed by fall of coal.

July 14, 1911.—Pinnacle Mine of the American Coal Co. Louis Averson, Miner, 33, Hungarian. Instantly killed by fall of slate.

August 7, 1911.—Caswell Creek of the Pocahontas Cons. Collieries Co. Joseph Beck, Driver, 39, Negro. Was pulling a car out of room, when car knocked out prop, letting top coal down on him, killing him.

August 28, 1911.—Spring Mine of the Spring Coal Mining Co. J. G. Abbott, Slate Foreman, 51, American. Instantly killed by fall of slate. The place had been examined by the mine foreman a few minutes before the accident and was pronounced safe. This was a case where the danger could not be foreseen.

August 28, 1911.—Spring Mine of the Spring Coal Mining Co. James H. Bragg, Mine Foreman, 42, American. This man had himself examined the place a few minutes before the accident and pronounced it safe. He was instantly killed by fall of slate.

September 1, 1911.—Lynchburg Mine of the Lynchburg Coal & Coke Co. John Hall, Miner, 20, American. Instantly killed by fall of coal.

September 11, 1911.—Booth-Bowen Mine of the Booth-Bowen Coal & Coke Co. Charles Nowlin, Pumpman, 42, American. He was cutting a cross cut and had fired two shots, one bottom and one top, which liberated a piece of draw slate. This fell on him, instantly killing him.

September 14, 1911.—Caswell Creek Mine of the Pocahontas Cons. Coal & Coke Co. John Roark, Driver, 22, American. There were no witnesses to this accident, but it is supposed that the car jumped the track and knocked out prop, letting slate and coal down, killing him instantly.

September 22, 1911.—Crystal No. 1 Mine of the Crystal Coal & Coke Co. J. L. Graham, Miner, 25, American. Instantly killed by fall of slate.

September 28, 1911.—Pinnacle Mine of the American Coal Co. Bruno Tassoni, Bone Picker, 22, Italian. He was coupling two cars and standing with one foot on one and one foot on the other, when he fell on to the track and one car passed over him, killing him.

October 13, 1911.—No. 1 Mine of the Thomas Coal Co. Louis Niato, Trackman, 35, Italian. In dropping a car down to the face, did not get to brake in time and was squeezed between car and face of coal.

October 19, 1911.—Caswell Mine of the Pocahontas Cons. Coal Co. George Martin, Miner, 27, American. Instantly killed by fall of coal.

October 19, 1911.—Buckeye Mine of the Buckeye Coal & Coke Co. John Williamson, Locomotive Engineer, 23, American. Instantly killed by train separating and colliding with another train of cars. Body was found under the engine.

November 13, 1911.—Sagamore Mine of the Pocahontas Cons. Coal Co. Andy Dabot, Miner, 25, Slav. This man was found unconscious and it is supposed that he came in contact with live wire, though there were no marks on his body to indicate such.

December 18, 1911.—Buckeye Mine of the Buckeye Coal & Coke Co. Levi Tabor, Miner, 42, American. Instantly killed by fall of "kettle bottom."

January 18, 1912.—Mill Creek Mine of the Mill Creek Coal & Coke Co. Frank Laver, Miner, 18, American. He was cutting coal off side of pillar to break up for ballasting track which caused an upper piece of roof coal and slate to fall on him.

February 15, 1912.—South Pinnacle Mine of the American Coal Co. Joseph Kaltaji, Miner, 37, Hungarian. Disregarding instructions to keep down the draw slate, he was caught by its fall and instantly killed.

April 1, 1912.—Buckeye South of the Buckeye Coal & Coke Co. William Ernest Bennett, Miner, 35, American. Instantly killed by fall of "horseback."

April 3, 1912.—Wenonah Mine of the Wenonah Coal & Coke Co. Andrew B. Sisk, Motorman, 22. His motor collided with a trip of empties and one car was knocked up on the motor catching him and injuring him so seriously that he died next day in the hospital.

May 3, 1912.—No. 2 Mine of the Crystal Coal & Coke Co. Lawrence Zalaski, Miner, 35, Hungarian. Instantly killed by fall of roof.

May 9, 1912.—Buckeye South Mine of the Buckeye Coal & Coke Co. Tony Rasunar, Slateman, 20, Polish. Instantly killed by fall of slate.

May 23, 1912.—Cephus Mine of the Godfrey Coal Co. Solomon Jackson, Miner, 28, Negro. He tried to take down slate and as it would not come, he went to work under it. It fell and instantly killed him.

May 28, 1912.—No. 3 Mine of the Crystal Coal & Coke Co. Dolph Roose, Laborer, 33, Italian. He heard the slate breaking, while he was timbering room and tried to escape, but ran directly under it and was crushed by its fall.

MINGO COUNTY.

July 25, 1911.—Red Jacket Mine of the Red Jacket Cons. Coal & Coke Co., Inc. Nick Rehartchuek, Miner, 25, Slav. Instantly killed by fall of slate.

September 13, 1911.—No. 9 Mine of the Thacker Coal & Coke Co. Obe Wilson, Miner, 32, Negro. Wilson was riding in front end of empty trip and fell off, the car running over him and instantly killing him.

November 17, 1911.—Pappoose Mine of the War Eagle Coal Co. John Coalmar, Miner, 48, American. He went back on shot before it had time to fire, it went off and the falling slate crushed him to death.

December 29, 1911.—No. 1 Mine of the Glen Alum Coal Co. Thomas Honners, Tippleman, 60, American. Hit by flying coal from run-a-way car, badly injured and died next day.

December 29, 1911.—No. 1 Mine of the Glen Alum Coal Co. Tony Cappell, Tippleman, 22, Italian. Hit by flying coal from run-a-way car and badly injured. He died on January 4, 1912.

January 15, 1912.—No. 11 Mine of the Thacker Coal & Coke Co. Dan Hubbard, Shotfirman, 35, American. He died from electric shock supposed to have been received while placing cable on feed wire.

February 6, 1912.—No. 1 Mine of the Chattaroy Colliery Co. Grover Jewell, Miner, 19, American. This death was caused by his digging out coal from under an unseen break in the sandstone. He was instantly killed by fall of same.

February 21, 1912.—Cinderella Mine of the Sycamore Coal Co. George Cox, Machine Runner, 38, English. Caught leg in mining machine and was killed instantly.

February 21, 1912.—No. 2 Mine of the Red Jacket Jr. Coal Co. William Phillips, Shotfirer, 21, American. In getting on the locomotive, he came in contact with the trolley wire and he was electrocuted.

February 22, 1912.—No. 1 Mine of the Glen Alum Coal Co. Charles Kerekas, Miner, 28, Hungarian. This man had fired a shot and without examining the roof, went to work to load a car. Slate fell on him and instantly killed him.

February 22, 1912.—No. 1 Mine of the Glen Alum Coal Co. John Dule, Miner, 25, Hungarian. He was notified to leave the place, but did not do so and was killed by fall of rock.

LOGAN COUNTY.

July 20, 1911.—No. 3 Mine of the United States Coal & Oil Co. Stanley Sparks, Laborer, 20, American. He went down in the tippie to oil the shakers without notifying anyone around the tippie and while there the shakers were started and was caught in the belt wheel and instantly killed.

September 16, 1911.—Cora Mine of the Cora Coal & Coke Co. Mike Magaski, Miner, 35, Hungarian. He came in contact with live wire and was electrocuted.

October 5, 1911.—Johnson Mine of the E. R. Johnson Coal Mining Co. Hiram Stewart, Miner's Helper, 17, American. The miner had pulled some slate down and was sounding it, when the boy stuck his head under and slate fell on him and killed him.

November 20, 1911.—Nos. 5 & 6 Mine of the United States Coal & Oil Co. Herbert Ellis, Trapper and Brakeman, American. He uncoupled car at end of trip and left it standing on grade with no brake set. He then jumped on rear car and was being drawn by motor and when he got to opposite switch, he either jumped or fell off and the car he had left standing on grade ran over him and killed him instantly.

January 1, 1912.—Earling Mine of the Ferndale Coal Co. C. W. Wilson, Loader, 28, American. Fatally injured by fall of slate. He died in the Logan hospital next day.

March 6, 1912.—No. 10 Mine of the United States Coal & Oil Co. Seva Emry, Loader, 55, Hungarian. He was moving his tools and was carrying a coal auger on his shoulder. This auger came in contact with trolley wire and he was electrocuted.

March 25, 1912.—Earling Mine of the Ferndale Coal Co. Ben Camp, (Berito Lapere), Miner, 30, Spanish. He was instructed to shoot coal, but instead proceeded to pull it down with a pick and the coal fell on him and crushed out his life.

April 30, 1912.—Earling Mine of the Ferndale Coal Co. John Morrisana, Miner, 37, Italian. Instantly killed by fall of slate.

May 1, 1912.—Manbar Mine of the Manbar Coal Co. Frank Blair, Slateman, 50, American. Instantly killed by fall of slate.

May 29, 1912.—No. Mine of the United States Coal & Oil Co. Charlie Lewis, Trackman, 60, Negro. He stepped on rail and struck his head against trolley wire and was electrocuted.

NON-FATAL ACCIDENTS

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1914.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside
BROOKE COUNTY										
1	Lewis No. 1	John Mosiek	2-17-12	Slav	1 Yr.	23	Miner	Fall of slate	Cut about head and bruised about body	1
2	Labelle	James McBride	5-13-12	American	2 Yrs.	28	Miner	Fall of stone	Foot mashed	1
MARION COUNTY										
1	Annabelle	Arch Horner	7-3-11	American	2 Yrs.	19	Driver	Caught between rib and mine car	Three ribs fractured and possibly internally injured	1
2	Annabelle	Jos. Penyon	7-6-11	Italian	1 Yr.	23	Laborer	Caught under piece of rail	Bruised right leg	1
3	Consolidation No. 43	Joe Houck	7-6-11	Pole	1 Yr.	20	Miner	Hurt by mine car	Bruised hand	1
4	Consolidation No. 26	Geo. Posepak	7-8-11	Slav	3 Yrs.	31	Loader	Caught by fall of slate	Fingers of right hand mashed	1
5	Consolidation No. 23	Frank Burlovich	7-13-11	Slav	4 Yrs.	19	Miner	Fall of slate	Left knee joint contused and lacerated	1
6	Consolidation No. 43	French Shackelford	7-24-11	American	2 Yrs.	21	Laborer	Injured by mine cars	Double fracture of lower jaw-bone and cuts about head, lips and neck	1
7	Stafford	Jess Gregory	8-11-11	English	25 Yrs.	38	Shotfirer	Premature explosion of cap	Burnt about face and arm and slight contusion of right arm	1
8	Jamason No. 7	Steve Hodaek	8-15-11	Horwat	6 Yrs.	24	Timberman	Struck by mine car	Slight bruises about head and shoulders	1
9	Consolidation No. 24	Ustin Panaski	8-21-11	Russian	1 Yr.	27	Loader	Fall of slate	Back badly bruised	1
10	Stafford	Frank Mattie	9-2-11	Hungarian	10 Yrs.	42	Miner	Fall of coal	Contused left hip	1
11	Consolidation No. 26	Norman Capitola	9-5-11	Italian	6 Yrs.	31	Miner	Fall of slate	Leg fractured between ankle and knee	1
12	Phillips	Grover Rice	9-25-11	American	2 Yrs.	24	Miner	Fall of coal and rock	Head and face cut and back injured	1
13	Consolidation No. 38	Tiko Kilne	9-25-11	Austrian	3 Yrs.	31	Driver	Kicked by mule	Scalp wound	1
14	Stafford	Andy Barnes	10-7-11	Hungarian	7 Yrs.	37	Timberman	Fall of slate	Contusion of scapular region, cut below left eye and contusion spine	0
15	Annabelle	Samuel Abbotts	10-12-11	Italian	1 Yr.	21	Bricklayer	Mine car	Badly lacerated hands and left wrist	1
16	Federal	Elmer Clayton	10-13-11	American	9 Yrs.	35	Laborer	Run over by mine car	Ribs broken, contusion of lungs and lacerations of hand and face	1
17	Consolidation No. 56	Jule Verhagen	10-17-11	French	20 Yrs.	42	Loader	Struck by flying coal	Heard cut	1
18	Consolidation No. 56	John Capriotti	10-18-11	Italian	2 Yrs.	21	Driver	Mine car	Injured leg above ankle	1
19	Consolidation No. 7	Joe Vincl	10-24-11	German	2 Yrs.	18	Driver	Caught between car and rib	Collar bone and ribs broken and hand cut	1
20	Federal	Jack Toothman	11-6-11	American	4 Mos.	24	Laborer	Caught in machinery	A contused, lacerated wound of right leg and slight body bruises	1
21	Consolidation No. 36	Dominick Sorrelli	11-7-11	Italian	3 Yrs.	29	Miner	Fall of slate	Shoulder and hip cut and back bruised	0
22	Consolidation No. 38	Nick Yoric	11-10-11	Pole	1 Yr.	22	Miner	Laborer fell from tippie	Cut on head and collar bone	0
23	Consolidation No. 84	Andrew Hagedus	12-13-11	Austrian	5 Yrs.	45	Miner	Fell from bridge on way to work	Three ribs broken, one perforating lung and fracture of skull	0
24	Kingmont	William Tucker	1-10-12	American	3 Yrs.	18	Driver	Mine car	Injured toes, one amputated	1
25	Consolidation No. 63	Charley Donico	1-12-12	Italian	5 Yrs.	33	Miner	Fall of coal	Small lobe in right leg broken	1
26	Consolidation No. 36	Isacio Gurasco	1-15-12	Italian	10 Mos.	20	Miner	Fall of slate	Broke on hip	1
27	Kingmont	Lester Murphy	1-16-12	American	2 Yrs.	17	Driver	Kicked by mule	Bruised chin	1
28	Federal	Earl Freeland	1-18-12	American	2 Mos.	16	Lamp Cleaner	Explosion of cap	Laceration of thigh	0

29	Consolidation No. 26	Joe Dominelli	1-24-12	Italian	3 Mos.	27	Miner	Fall of slate	Laceration of foot	I
30	Janison No. 9	Frank Carlton	1-31-12	Italian	2 Yrs.	27	Helper	Fall of slate	Hand fractured	I
31	Consolidation No. 33	Matteo Maff	2-1-12	Italian	2 Yrs.	32	Miner	Fall of slate	Fractured tibia and fibula and compound fracture of scapula	I
32	Janison No. 9	Patrick Diamond	2-2-12	American	1 Yr.	24	Driver	Mine car	Contused chest	I
33	Consolidation No. 51	Janet Maria	2-2-12	Italian	8 Mos.	47	Miner	Struck by flying coal	Slight of left eye impaired	I
34	Harry B. No. 4	James Neer	2-19-12	American	8 Yrs.	26	Miner	Fall of coal	Contusion of face	I
35	Consolidation No. 24	John Tort, Jr.	2-27-12	Hungarian	4 Yrs.	30	Miner	Fall of slate	Right foot mashed	I
36	Consolidation No. 26	Angelo Viszai	2-27-12	Hungarian	2 Mos.	20	Leader	Fell from mine car	Right leg mashed and contused	I
37	Kingmont	Sam Greco	3-5-12	Italian	2 Yrs.	30	Miner	Fall of roof coal	Back and hip slightly injured	I
38	Consolidation No. 38	Dominick Paydula	3-5-12	Italian	5 Yrs.	21	Driver	Caught between car and rib coal	Right collar bone dislocated, scalp wound and arm bruised	I
39	Federal	William E. Skinner	3-7-12	American	2 Yrs.	15	Trapper	Run over by mine locomotive	Foot broken and toes bruised	I
40	Federal	John Gillespie	3-12-12	American	19 Yrs.	30	Laborer	Caught between car and rib	Leg fractured above ankle and bruised below knee	I
41	Consolidation No. 22	Chas. Strickler	3-17-12	American	12 Yrs.	41	Asst. Foreman	Caught in machinery	Third and fourth fingers of left hand taken off	I
42	Consolidation No. 55	Pasco Spina	3-21-12	Italian	4 Mos.	33	Miner	Fall of slate	Bruised and cut about head and shoulders	I
43	Consolidation No. 53	Frank Malo	3-22-12	Italian	5 Yrs.	33	Miner	Fall of draw slate	Left foot mashed	I
44	Kingmont	Frank York	3-30-12	Italian	12 Yrs.	45	Miner	Struck by mine post	Broken nose	I
45	Consolidation No. 43	Sam Ferese	4-6-12	Italian	7 Yrs.	45	Laborer	Caught in machine	Two fingers on right hand amputated	I
46	Consolidation No. 26	Luigi Leto	4-6-12	Italian	4 Mos.	19	Leader	Fell between mine cars	Left leg badly mashed	I
47	Janison No. 8	Jos. Travna	4-10-12	American	1 Yr.	18	Driver	Run over by mine car	Lacerated and broken hand	I
48	Consolidation No. 63	John Hetrick	4-15-12	American	4 Yrs.	38	Mch. Runner	Caught arm in machine	Complete abrasion of legament of right fore-arm	I
49	Consolidation No. 21	Fraguine Domi	4-15-12	Italian	3 Yrs.	23	Driver	Run over by mine car	Right leg bruised	I
50	Consolidation No. 38	Nicolo Bruno	4-19-12	Italian	4 Yrs.	41	Leader	Struck by train on way to work	Head cut, shoulders bruised and two ribs broken	I
51	Consolidation No. 68	Joe Biotoli	4-23-12	Pole	4 Yrs.	37	Miner	Fall of slate	Dislocation of right ankle and cuts and bruises about face and body	I
52	Federal No. 1	Wallace Propovich	4-24-12	Croatian	6 Yrs.	36	Miner	Fall of slate	Contused fracture of left leg, scalp wound and minor bruises	I
53	Federal No. 1	Jay Wells	5-25-12	American	2 Yrs.	27	Motorman	Squeezed between car and rib	Contusion of left hip and chest	I
54	Janison No. 9	Ignets Valski	4-29-12	Austrian	1 Yr.	24	Driver	Caught between car and coal-rib	Fell cut and breast crushed	I
55	Janison No. 8	Evan Mestovic	5-7-12	Austrian	2 Yrs.	22	Driver	Run over by mine car	Compound fracture of left limb and flesh badly lacerated	I
56	Consolidation No. 26	Philip Lacomia	5-9-12	Italian	8 Yrs.	33	Miner	Fall of draw slate	Back broken, back bruised and head cut	I
57	Federal	John Shuck	5-17-12	Austrian	8 Mos.	38	Mch. Scraper	Injured by Machinery	Contusion of right foot and toe fractured	I
58	Janison No. 8	Nick Vaukovich	5-24-12	Austrian	4 Yrs.	24	Driver	Caught between car and rib (coal)	Fractured skull	I
59	Consolidation No. 43	Nick Fedorovich	5-29-12	Pole	3 Yrs.	37	Miner	Run over by mine cars	Leg broken and crushed	I
60	Consolidation No. 38	Don Paydula	5-30-12	Italian	5 Yrs.	21	Driver	Fall of coal and slate	Head severely cut and shoulder blade broken	I
61	Consolidation No. 24	Petro Won	5-30-12	Pole	6 weeks	40	Laborer	Explosion of Dynamite Cap	Right eye blown out and face lacerated	I
62	Federal No. 1	Lout Bole	6-3-12	Horwat	20	Miner	Fall of Coal and slate	Fracture of right thigh	Fracture of right thigh	I
63	Consolidation No. 43	Chas. Tadarah	6-8-12	Servian	3 Yrs.	25	Brakeman	Caught between cars	Fractured right ribs and lung perforated	I
64	Consolidation No. 49	Stony Kruzah	1-9-12	Pole	8 Yrs.	38	Miner	Small fall of slate	Left leg fractured	I
65	Federal No. 1	Tony Vidovich	6-16-12	Slav	18	Scraper	Fell in front of motor		Contusion of right eye, right arm and right side	I
66	Consolidation No. 24	Scott Smith	6-21-12	American	25 Yrs.	55	Trapper	Fell between motor and car	Contused hips	I

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURED	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
MARSHALL COUNTY										
1	Mound	Arthur W. Mann	12-16-11	American	15 Yrs.	45	Miner	Fall of coal and stone	Injured back, broken left leg and right foot bruised	1
2	Bowwood	Andy Romonovsky	1-27-12	Bohemian	2 Yrs.	24	Brakeman	Run over by motor	Ribs seriously injured	1
3	Bowwood	Alex Manor	3-6-12	Greek	1 Yr.	50	Loader	Mine cars	Dislocated wrist and broken rib	1
4	Bowwood	George Winslip	3-25-12	American	1 Yr.	27	Trap rider	Mine car	Leg badly bruised	1
BRAXTON COUNTY										
1	Bower No. 10	Costanzo Ruberto	11-14-11	Italian	5 Yrs.	45	Miner	Fall of slate	Bruised leg	1
2	Bower No. 10	Mike Rulert	11-14-11	Slav	1 Yr.	25	Laborer	Fall of slate	Scalp wound	1
3	Bower No. 10	William Dwyer	11-24-11	American	8 Yrs.	24	Miner	Fall of Coal	Bruised hip and leg	1
4	Copen No. 11	Dorsey Ratliff	1-16-12	American	4 Yrs.	20	Driver	Fall of slate	Ear split	1
OHIO COUNTY										
1	Elm Grove	Joe Kobls	11-16-11	Pole	2 Yrs.	40	Loader	Fall of stone	Right leg and several ribs broken	1
2	Elm Grove	Sam Charley	2-29-12	Italian	3 Yrs.	23	Driver	Arm caught between car and post	Left arm broken	1
3	Elm Grove	Martin Kobiscer	4-27-12	Pole	1 Yr.	35	Loader	Fall of slate	Left leg broken	1
HARRISON COUNTY										
1	Consolidation No. 66	John Landert	7-3-11	American	5 Yrs.	27	Contractor	Fall of slate	Leg broken above ankle	1
2	Fairmore	Ray Trippett	7-14-11	American	1 Yr.	18	Driver	Struck eye with whip	Eye seriously injured	1
3	Grassilli	Joseph Perryall	7-19-11	Italian	1 Yr.	18	Miner	Fall of slate	Broken leg	1
4	Bingamon	Sam Tano	8-7-11	Italian	8 Yrs.	30	Driver	Caught between rib and car	Shoulder bruised and ligament torn between ribs	1
5	Marshall	Samuel Murray	8-8-11	American	2 Yrs.	19	Driver	Mine car ran over foot	Left foot injured, heel cut and bruised	1
6	Willard	A. B. Gallaher	10-2-11	American	20 Yrs.	35	Miner	Fall of slate	Back sprained, nose and jaw fractured and head lacerated	1
7	Monroe	Edmond Stringston	10-6-11	American	20 Yrs.	40	Mch. Helper	Came in contact with fuse block	Shoulder burned	1
8	Consolidation No. 51	Finley O'Dell	10-14-11	American	7 Yrs.	30	Miner	Fall of coal	Right leg broken	1
9	Roseland No. 1	Geo. Williams	11-1-11	American	14 Yrs.	31	Pumper	Caught between car and rib	Three ribs broken	1
10	Consolidation No. 25	Sam Bouchica	12-7-11	Roumanian	3 Yrs.	43	Miner	Fall of coal	Right eye cut, later ulcerated	1
11	Delta	Sam Albert	1-25-12	Italian	2 Yrs.	25	Laborer	Leg caught in car door	Ankle broken	1
12	Grassilli	Joe Barcovich	2-17-12	Slav	20 Yrs.	50	Miner	Hit by flying coal	Depression of skull and eye cut	1
13	Consolidation No. 55	E. C. Devauchin	2-23-12	American	5 Yrs.	28	Miner	Fall of coal	Two ribs broken and entire body bruised	1
14	Consolidation No. 50	Tony Falcin	3-3-12	Hungarian	2 Yrs.	23	Miner	Foot caught by car bumper	Left foot mashed	1
15	Consolidation No. 32	Salvatore Lucanis	4-1-12	Italian	1 Yr.	19	Driver	Thrown under car	Right leg broken in two places below knee	1
16	Grassilli	Joe Marussica	4-5-12	Slav	20 Yrs.	30	Miner	Struck by flying coal	Protruded loss of eyesight	1
17	Bingamon	William Staines	4-15-12	American	13 Yrs.	33	Miner	Explosion of detonating cap	Hands lacerated	1
18	Consolidation No. 49	John Ross	4-18-12	Pole	6 Weeks	40	Miner	Fall of slate	Fracture of right leg above ankle	1
19	Consolidation No. 66	Andy Koray	4-30-12	Hungarian	6 Weeks	20	Loader	Explosion of overcharged shot	Hands, face and neck burned	1

29	Erie	Paul Ramsey	5-3-12 Slav	2 Yrs	26	Miner	Caught by mine cars	Broken hip and thigh	I
21	Crassoli	Joe Letasick	5-4-12 Slav	3 Mos.	37	Miner	Fall of roof coal	Cut on head and body	I
22	Consolidation No. 65	Salvatore Vail	5-6-12 Italian	7 Yrs.	19	Timberman	Fell from railroad car	Scalp wound above eye and bone fractured above wrist	O
23	McCandlish	Thos. Floore	5-9-12 Italian	1 Yr.	16	Trapper	Caught while setting car brake	Hand mashed	I
24	Harold	Walter Monroe	5-10-12 American	3 Yrs	23	Mech. Helper	Caught in machine	Right leg broken at ankle	I
25	Erie	Joseph Melchior	5-11-12 Slav	3 Mos.	16	Car-catcher	Hurt on coal chute	Foot crushed	O
26	Hutchinson	Dominick Bumbadore	5-14-12 Italian	5 Yrs	21	Miner	Caught by mine car	Badly sprained knee	I
27	Hutchinson	Antonio Rosso	5-17-12 Austrian	3 Yrs	35	Miner	Struck thumb with axe	Thumb amputated	I
28	Consolidation No. 49	John Seacell	5-23-12 Italian	10 Yrs	30	Miner	Fall of stone	Fractured femur of right leg	I
29	Consolidation No. 65	Angelot Perrone	5-24-12 Italian	4 Mos.	37	Miner	Fall of coal	Left leg broken	I
30	Consolidation No. 55	Rafael Soudhi	5-30-12 Italian	4 Yrs	30	Miner	Dropped prop upon foot	Foot punctured by nail and blood poison resulted	I
31	Consolidation No. 49	Carmine Culanti	5-31-12 Italian	2 Mos.	23	Sluteman	Fall of slate	Fractured femur of left leg and general contusion of left side	I
32	Consolidation No. 21	Green Henry	6-4-12 Negro	9 Yrs	38	Mech. Helper	Caught in machine	Left foot crushed	I
33	Erie No. 1	Mike Price	6-12-12 Pole	6 Yrs	21	Driver	Caught between car and rib	Contusion of hip	I
34	Consolidation No. 23	Joe Farone	6-19-12 Italian	1 Yr	20	Loader	Caught in machine	Severe laceration of right arm	I
35	Consolidation No. 52	Lloyd H. Elliott	6-26-12 American	6 Mos.	18	Car-catcher	Caught between mine cars	Right leg broken below knee	I
36	Erie	John Seuch	6-29-12 Hungarian	2 Yrs	19	Driver	Caught between car and rib	Hips and loins severely mashed	I
1	LEWIS COUNTY	Joe Sign	7-28-11 Austrian	2 Yrs	27	Miner	Fall of slate	Foot badly crushed	I
1	Polar	TY	7-6-11 Pole	10 Yrs	55	Miner	Struck by flying coal	Piece of coal imbedded in eye	I
2	BARBOUR COUNTY	Chas. Demersky	8-15-11 American	16 Yrs	28	Pumper	Caught in machine	Right hand crushed	I
3	Midland	Morris Stanford	8-17-11 Negro	5 Yrs	33	Loader	Fall of top coal	Right leg broken above ankle	I
4	Lillian	Willie Edz Male	8-19-11 American	1 Yr	16	Loader	Cut by shovels	Right hand mashed	O
5	Century No. 2	David Jones	8-24-11 Italian	4 Yrs	31	Miner	Caught between car and prop	Two ribs dislocated	I
6	Century No. 1	Veto Potoczko	8-30-11 Pole	5 Yrs	33	Miner	Fall of slate	Hand injured	I
7	Century No. 1	Andy Abrockton	10-30-11 Pole	1 Yr	40	Loader	Explosion of shot	Contusion and laceration of hand,	I
8	Laurel Creek	L. M. Ryan	11-3-11 American	10 Yrs	32	Miner	Fall of slate	amputation of portion thereof	I
9	Century No. 1	Wm. Dumbolavitch	12-21-11 Lithuanian	3 Yrs	28	Loader	Explosion of shot	Right leg broken below knee	I
10	Century No. 1	John Belodski	1-22-12 Pole	2 Yrs	28	Loader	Fall of slate	Contusion of laceration of left side of face and left leg	I
11	Century No. 1	Blair Corder	1-23-12 English	5 Yrs	27	Driver	Caught between mine cars	Laceration of scalp, left elbow bruised and left ankle sprained	I
12	Century No. 1	J. J. Martin	1-31-12 English	3 Yrs	27	Laborer	Caught between mine cars	Bruised on right side of spine	I
13	Century No. 1	A. W. Campbell	2-13-12 English	10 Yrs	32	Laborer	Caught between motor and rock	Contusion of right arm and sprained right ankle	O
14	Century No. 1	George McMurdo	3-13-12 English	1 Yr.	18	Laborer	Caught between two mine cars	Foot mashed	I
15	Century No. 1	Joe Entrazzi	5-3-12 Austrian	2 Yrs	16	Loader	Fall of slate	Thumb mashed off	I
16	Consolidation No. 37	George Thomas	5-21-12 Hungarian	1 Yr	28	Timberman	Fall of slate and stone	Injury to spinal column	I
17	Consolidation No. 37	Crawford Baronto	5-21-12 Croatian	8 Yrs	37	Timberman	Fall of slate and stone	Mashed through back and hips	I
18	Century No. 1	Wm. McMurdo	5-25-12 American	7 Yrs	20	Motorman	Fall of slate	Head cut and bruised, right arm broken and shoulder severely bruised	I
								Clim lacerated, head, neck and shoulders bruised	I

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PER ON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside of
MONONGALIA COUNTY										
1	Elkins No. 5	Joseph Vickino	7- 8-11	Italian		23	Bailer	Foot caught between mine cars	Toes broken and mashed on left foot	1
2	Elkins No. 5	Pete Carlo	8-14-11	Italian	3 Yrs.	20	Miner	Caught between car and coal	Left arm bruised and mashed between elbow and wrist	1
3	Elkins No. 5	A. Rosetta	10-13-11	Italian	1 Yr.	25	Miner	Fall of coal	Left leg broken between ankle and knee and right leg broken below hip	1
4	Elkins No. 5	John Aplena	10-16-11	Italian	3 Yrs.	30	Miner	Injured by mine car	Leg broken	1
5	Elkins No. 5	Pete Fantace	11- 6-11	Italian	2 Yrs.	24	Brakeman	Caught between mine cars	Left foot mashed	1
6	Elkins No. 5	George Gallo	3-13-12	Slay	3 Yrs.	24	Miner	Fall of coal	Right ankle fractured	1
7	Elkins No. 4	Steve Malnes	4- 4-11	Italian	4 Yrs.	26	Tinberman	Fall of rock	Shoulder broken	1
8	Elkins No. 4	Shed Runner	4-29-12	American	2 Mos.	44	Readman	Fall of top coal	Leg broken	1
9	Elkins No. 1	Lee Lemons	4-29-12	American	10 Yrs.	45	Laborer	Fall of top coal	Back and ankle sprained and lacerated	1
10	Consolidation No. 30	Lawrence Phillips	6-18-12	American	2 Yrs.	26	Miner	Horse fell on him	Back and hand sprained and hip bruised	1
11	Opekiska	Samuel Whinnie	6-25-12	Welsh	20 Yrs.	45	Mine Foreman	Caught between car and post	Hips contused	0
PRESTON COUNTY										
1	Hamilton C. & C. Co.	Arthur A. Poling	9- 9-11	American	7 Yrs.	26	Miner	Fall of slate, coal and rock	Ribs injured and bruised generally	1
2	Elkins No. 2	Archie Roth	11-10-11	American	14 Mos.	21	Brakeman	Caught between mine cars	Foot mashed	1
3	Cascade	Sandy Philippi	12-18-11	Italian	6 Yrs.	21	Miner	Caught between car and rib	Side and stomach crushed and possibly internally injured	1
4	Borgman No. 1	Fred Borgman	1- 4-12	American	3 Yrs.	24	Miner	Caught between car and roof	Dislocation of spine	1
5	Tunnelton	Andrew France	1- 7-12	American	40 Yrs.	55	Miner	Fall of coal and bone	Small bone in right leg broken	1
6	Cascade	Russell Wheeler	1-19-12	American	5 Yrs.	30	Motorman	Fall of roof	Compound fracture and dislocation of ankle and finger fractured	1
7	Cascade	Wayne Pratte	1-27-12	American	4 Yrs.	28	Motorman	Fall of slate	Right leg broken	1
8	Tunnelton	Allen Peavers	2-18-12	American	10 Yrs.	26	Trip-rigger	Caught between motor and post	Contusion of breast	1
9	Tunnelton	Andy Busavage	4-10-12	Pole	24 Yrs.	45	Miner	Fall of coal	One rib torn loose from cartilage	1
10	Tunnelton	W. A. Breakiron	4-22-12	American	17 Yrs.	31	Miner	Premature explosion of powder	Burns about face and hand	1
11	Tunnelton	Jas. Myers	5-23-12	American	10 Yrs.	23	Miner	Caught between car and rib	Wrist broken	1
12	Elkins No. 6	Mike Philpela	5-28-12	Italian	9 Yrs.	40	Miner	Fall of Bone-coal	Two fractured ribs, lacerated scalp and general contusions	1
13	Elkins No. 2	Sabatino Sacors	6-11-12	Italian	7 Yrs.	32	Miner	Fall of Slate	Thigh fractured	1
RANDOLPH COUNTY										
1	Beech Run	George M. Gnaages	11- 2-11	American	18 Yrs.	34	Mine Foreman	Car of slate fell upon him	Left leg broken	0
2	Hopkins	Aaron Winters	12- 6-11	American	35 Yrs.	47	Driver	Struck by crank of machine	Arm broken	0
3	Weaver No. 2	John Osen	6-19-12	Italian	5 Yrs.	42	Miner	Fall of rock	Head cut and leg bruised	1
TUCKER COUNTY										
1	Cokeston No. 36	Andy Staran	7- 3-11	Austrian	6 Yrs.	22	Brakeman	Caught between two cars	Ankle of left leg broken	1

2 Thomas No. 34	Tony Search	7-14-11 Austrian	10 Yrs	35 Miner	Fall of roof	Left ankle and foot mashed.
3 Thomas No. 25	Mike Zaddy	7-14-11 Slav	5 Yrs	29 Miner	Caught between ear and prop	Arm broken.
4 Coketon No. 36	Pete Delack	7-21-11 Italian	3 Yrs	21 Driver	Kicked by mule	Eye injured
5 Thomas No. 38	Riley Rice	7-20-11 American	2 Yrs	27 Driver	Caught in mechanism of shaft	Leg broken
6 Thomas No. 38	A. F. Strahm	7-30-11 American	2 Yrs	28 Laborer	Fall of slate	Hip bruised
7 Thomas No. 23	Rock Latrick	8-2-11 Lithuanian	1 Yr	20 Miner	Explosion of shot	Face and hands burned
8 Thomas No. 23	John Moyle	8-2-11 Lithuanian	2 Yrs	26 Miner	Explosion of shot	Face and hands burned
9 Coketon No. 36	Joe Shilavish	8-3-11 Lithuanian	10 Yrs	36 Miner	Kicked by mule	Face badly bruised
10 Thomas No. 23	Eugene Lepor	8-3-11 Lithuanian	4 Yrs	36 Miner	Fall of slate	Laceration of right foot
11 Thomas No. 23	Steve Uzenis	8-7-11 Lithuanian	1 Yr	22 Miner	Explosion of shot	Face and arm blown of coal
12 Thomas No. 34	El Muloch	9-4-11 Slav	2 Yrs	17 Driver	Hand run over by mine car	Hand mashed
13 Thomas No. 23	Harry Harraraves	9-21-11 American	2 Yrs	18 Driver	Caught between ear and rib	Hand mashed
14 Pierce No. 40	Orville Carson	9-2-12 American	2 Mos.	27 Car-shifter	Run over by ear	Fractured tibia, shin bone broken and punctured wound in ankle
15 Pierce No. 39	Harold White	2-14-12 American	1 Yr	18 Driver	Thrown under mine car	Fracture of left pelvic bone
16 Pierce No. 33	Joe Mallick	2-22-12 Slav	1 Yr	20 Miner	Fall of roof	Confusion of foot and possible fracture of 4th metatarsal bone
17 Pierce No. 39	Mike Cowless	2-29-12 Lithuanian	4 Yrs	38 Loader	Fall of slate	Fracture of right thigh
18 Pierce No. 39	John Wlynick	6-15-12 Slav	2 Mos.	20 Slateman	Fall of roof	Crushed knee
TAYLOR COUNTY						
1 Rosemont	John Uchasin	7-3-11 Slav	5 Yrs	36 Timberman	Fall of slate	Leg broken and ankle crushed
2 New York	Sam Morratt	7-18-11 Italian	9 Yrs	32 Mch. Runner	Fall of large piece of clay	Broken leg
3 New York	Marion Gross	9-28-11 Italian	5 Yrs	50 Miner	Mine ears	Broken leg
4 Rosemont	Mike Saylor	10-13-11 Russian	3 Yrs	29 Miner	Fall of coal	Left hand badly cut and left ankle severely bruised
5 Rosemont	A. Starford	12-7-11 American	8 Yrs	23 Motorman	Mine car	Broken thigh bone
6 Rosemont	Geo. E. Davissom	1-9-12 American	4 Yrs	61 Miner	Thrown from mine car	Bruised about head and collar bone broken
7 Flemington	Dailey P. Marple	1-24-12 American	12 Yrs	25 Helper	Mine car	Small blood vessel near base of brain ruptured
8 Wendel	Samuel Lalier	2-28-12 Italian	3 Yrs	35 Miner	Fall of coal	Small bone broken above ankle
9 Rosemont	John Warren	3-6-12 Negro	10 Days	32 Miner	Fall of slate	One rib on left side fractured and ankle badly crushed and broken
10 Rosemont	John Hrepp	3-28-12 Slav	4 Yrs	28 Miner	Struck accidentally with axe	Left thumb cut off
11 Wendel No. 2	John Popovick	4-26-12 Slav	3 Yrs	24 Miner	Fall of slate	Hurt about hips and back
12 Rosemont	Andrew Reulen	5-11-12 Pole	3 Yrs	38 Miner	Fall of coal and slate	Compound fracture of leg below knee
13 Rosemont	Mike Marce	6-11-12 Slav	4 Yrs	23 Driver	Fall of slate	Compound fracture of leg below knee
14 Wendel No. 1	Larzo Gark	7-17-12 Slav	5 Yrs	40 Miner	Fall of slate	Right leg broken in two places below knee
GRANT COUNTY						
1 Henry No. 22	John Mackey	7-28-11 American	1 Yr	20 Motor-Helper	Caught between mine ears	Small bone in right arm broken
2 Henry No. 22	Lewis Yillop	9-12-11 German	2 Yrs	25 Miner	Fall of coal	Two ribs broken on right side
3 Henry No. 22	Jas. Quarto	10-9-11 Italian	6 Yrs	21 Miner	Fall of coal	Mashed hand, two fingers amputated
4 Henry No. 22	Louie Skeaver	12-12-11 Russian	2 Mos.	38 Scraper	Fall of coal	Leg broken below knee
5 Henry No. 22	Rock Bone	12-28-11 Italian	2 Yrs	21 Driver	Caught by mine car	Badly sprained ankle and small bone broken
6 Henry No. 22	Vedlar Scripp	2-20-12 Lithuanian	2 Yrs	30 Mch. Scraper	Struck by mine car	Fracture of the leg
7 Henry No. 22	Herman Hallenback	5-18-12 American	3 Yrs	17 Brakeman	Caught between ear and prop	Compression of skull and cut on right side of head
8 Buffalo Cr-Cumberland	Lewis Stringer	5-23-12 American	10 Yrs	42 Miner	Fall of coal	Broken leg and slight bruises about body

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURED	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
	MINERAL COUNTY									
1	Western Maryland	William McKeelf	7-28-11	American	10 Yrs.	45	Tram-driver	Caught between mine cars	Right foot mashed and leg broken above ankle	1
2	Oct No. 20	Clary Liller	8-1-11	American	2 Wks.	35	Miner	Fall of rock	Head cut, knee bruised, back and left breast bruised	1
3	Davis C&C Co., No. 14	Michael Cummings	10-27-11	American	18 Mos.	16	Miner	Mine cars	Left leg broken and right leg crushed necessitating amputation	0
4	Lower Potomac No. 19	Howard Cross	1-15-12	American	3 Yrs.	17	Miner	Fall of draw slate	Left leg broken above knee	1
5	Davis C&C Co., No. 10	Henry Rhodes	2-10-12	American	8 Yrs.	23	Miner	Mine car	Right leg broken between knee and ankle	1
6	Davis C&C Co., No. 20	Estelle Bombar	3-19-12	American	4 Mos.	16	Bracketman	Mine car	Ankle crushed	1
7	Davis C&C Co., No. 5	Rufus J. Heifer	4-2-12	American	20 Yrs.	38	Miner	Fall of coal	Leg broken above ankle	1
8	Davis C&C Co., No. 5	Robert McDonald	6-3-12	Scottish	40 Yrs.	62	Miner	Fall of coal	Left leg broken	1
9	Davis C&C Co., No. 20	James Healey	6-28-12	American	15 Yrs.	40	Laborer	Fall of rock	Nose mashed, forehead and chin lacerated and scalp cut	1
10	Blaine	Charles Edward Yonse	6-28-12	American	3 Yrs.	25	Driver	Explosion of powder	Arms and body burned	1
	PUNAM COUNTY									
1	Big Otto No. 1	Harvey Gales	7-14-11	Negro	12 Yrs.	40	Miner	Fall of slate	Both legs broken	1
2	Manila	Wm. Thomson	11-10-11	American	5 Mos.	35	Miner	Fall of slate	Head injured and hip sprained	1
3	Plymouth	Ned Smith	2-10-12	Negro	15 Yrs.	35	Miner	Explosion of shot	Leg broken	1
4	Plymouth	Stess Ray	2-20-12	American	5 Yrs.	40	Miner	Fall of slate	Side and shoulder injured	1
5	Plymouth	W. A. Ungenlath	3-18-12	American	10 Yrs.	50	Miner	Fall of top coal	Arm and leg broken	1
	MASON COUNTY									
1	Linden	Warner Stanley	9-4-11	American	2 Yrs.	20	Loader	Fall of coal	Head cut and back and hips sprained	1
2	Linden	Robert Rush	9-9-11	American	5 Yrs.	24	Loader	Struck by flying coal	Leg broken	1
3	Linden	W. F. Vining	10-4-11	American	15 Yrs.	47	Engineer	Scalded while firing boiler	Scalded about face and hands	0
4	Linden	Grover Rush	10-5-11	American	4 Yrs.	27	Miner	Fall of slate	Contused chest and arm and back cut	1
5	Linden	Robert Folsong	10-21-11	American	20 Yrs.	40	Miner	Fall of slate	Back and hips sprained	1
6	Linden	Cal. Staudler	11-5-11	American	52 Yrs.	52	Pipe-fitter	Fall of slate	Back bruised and two ribs fractured	1
7	Linden	Noah Ammler	1-20-12	American	30 Yrs.	61	Miner	Fall of slate	Back slightly injured and ankle injured	1
	BOONE COUNTY									
1	Peyton No. 2	Russell Angus	11-24-11	American	1 Yr.	16	Laborer	Mine car	Broken leg	0
	NICHOLAS COUNTY									
1	Saxman	Tom Granch	8-29-11	Austrian	5 Yrs.	35	Miner	Mine cars	Simple fracture of right arm and compound fracture of left leg	0
2	Saxman	Charles Kincaid	2-14-12	American		44	Engineer	Caught in machinery	Broken bone in left fore-arm	0

GREENBRIER COUNTY			11- 7-11	Welsh	10 Yrs.	41	Miner...	Fall of rock	Leg and wrist broken and cuts on head and leg.	1
1 Spruce Knob.	Thomas J. Jones.	Ord Welsh.	7-20-11	American	13 Yrs.	34	Miner...	Fall of slate	Shoulder and right foot sprained and confusion of head	1
KANAWHA COUNTY										
1 Bradley White Ash.	Ord Welsh.	7-13-11	American	9 Yrs.	23	Loader	Fall of coal	Compound fracture of left leg	1	
2 Buckeye	Wm. Haney	7-27-11	American	4 Yrs.	21	Stateman	Fall of slate	Left arm broken, mashed hips and probable internal injuries	1	
3 Imperial No. 1	Bruce Vickers	7-31-11	American	10 Yrs.	34	Loader	Fall of slate	Simple fracture of left thigh and dislocation of right hip joint	1	
4 Rose	George Herron	7-31-11	American	2 Mos.	18	Driver	Run over by mine car	Left side mashed and head cut	1	
5 Chestnut No. 1	Lloyd French	8-17-11	American	13 Yrs.	28	Miner	Fall of top coal	Collar bone broken and shoulder dislocated	1	
6 Cannetown No. 1	Edward Felen	8-19-11	American	1 Yr.	20	Motorhelper	Collision between car and door	Left arm crushed and later amputated	1	
7 Republic No. 3	Walter Smith	8-29-11	American	15 Yrs.	28	Driver	Kicked by mule	Arm broken	1	
8 Berlin	W. W. Vannatter	9-8-11	Negro	1 Yr.	19	Miner	Powder explosion	Burned head and arms	1	
9 Splint	Claude Payne	9-9-11	Italian	3 Yrs.	23	Loader	Fall of coal	Left foot crushed necessitating amputation	1	
10 Kayford No. 1	Martin Zize	9-11-11	American	20 Yrs.	58	Miner	Fall of draw slate	Strained back, slight scalp wound and laceration on left shoulder	1	
11 Hughes Creek No. 2	Ansel Halsey	9-16-11	American	3 Days	19	Loader	Fall of slate	Broken leg	1	
12 West Virginia No. 3	Bert Flowers	9-18-11	American	20 Yrs.	40	Miner	Fall of slate	Injured back	1	
13 Oleott No. 2	Charles McCann	9-20-11	American	2 Yrs.	34	Grazer	Knocked down by taut rope	Arm broken	1	
14 Blackley	Benj. Alton Withrow	10-2-11	American	7 Yrs.	40	Miner	Caught in machinery	Compound fracture of bones in left forearm and fracture of collar bone	1	
15 Black Tulp	W. C. B. Radtiff	10-2-11	American	2 Yrs.	25	Driver	Caught between mine cars	Contusion of right side and finger mangled	1	
16 Greenbrier No. 3	Will Cordle	10-4-11	Russian	2 Yrs.	27	Miner	Caught between car and coal	Arm and leg broken	1	
17 Splint No. 2	Steve Matooke	10-9-11	Italian	3 Yrs.	30	Loader	Fall of slate	Fracture of ankle joint and scalp wound	1	
18 West Raccoon No. 2	Sylvester Tagliante	10-9-11	American	14 Yrs.	32	Lineman	Struck by coal on incline	Fractured femur of right leg	1	
19 West Raccoon No. 2	Wm. Yeom	10-17-11	American	5 Yrs.	22	Brakeman	Mine car	Fracture of left radius bone	1	
20 Greenbrier No. 2	Clyde Meddlins	10-21-11	American	5 Yrs.	39	Mch. Helper	Fell from platform	Back dislocated	1	
21 Belmont	Edgar Newman	11-9-11	American	8 Yrs.	35	Dumper	Fell from platform	Nose broken and face bruised	1	
22 Black Cat	M. B. Browning	11-9-11	American	5 Yrs.	35	Weightmaster	Fell from platform	Sprained ankle	1	
23 Black Cat	A. J. Williams	11-13-11	American	8 Yrs.	55	Miner	Fall of slate	Dislocation and fracture of back	1	
24 Oleott No. 2	George Justice, Sr	11-23-11	American	20 Yrs.	60	Miner	Fall of coal	Bone in foot broken	1	
25 Raccoon Gas	J. A. Castle	12-1-11	American	25 Yrs.	35	Laborer	Fall of slate	Contusion of hips and abdomen	1	
26 Buckeye	John Davis	12-5-11	American	25 Yrs.	63	Blacksmith	Fell on incline	Fracture of two ribs on left side	1	
27 Quarrier	Wesley Circle	12-8-11	American	7 Yrs.	21	Driver	Mine car	Bruised back and hips and laceration of the skin	1	
28 Red Warrior	Albert Skon	12-12-11	American	20 Yrs.	36	Mch. Runner	Caught in machinery	Crushed and punctured wounds on right hand	1	
29 Cherokee	Walter Collins	1-12-12	American	7 Yrs.	28	Mch. Runner	Fall of slate	Dislocation of back	1	
30 Oleott No. 2	William Kirly	1-15-12	Italian	2 Yrs.	26	Loader	Fall of slate	Fractured fibula	1	
31 Rose	Canillo Duane	1-22-12	American	5 Yrs.	24	Miner	Caught between machine and wall	Bruised instep and ankle	1	
32 North Horton	H. G. May	1-25-12	American	7 Yrs.	20	Laborer	Mine car	Two bones broken in foot and generally mangled	1	
33 Oakley	Vince Mullins	1-29-12	American	10 Yrs.	41	Pump-runner	Driving a nail	Loss of left eye	1	
34 Chesapeake No. 1	Ed. Angham	2-6-12	Russian	1 Yr.	35	Miner	Fall of draw slate	Small bone in leg broken	1	
35 Splint No. 5	Logan Westview	2-13-12	Negro	5 Yrs.	26	Mch. Helper	Fall of coal	Left hand smashed and amputated	1	
36 West Virginia No. 1	Joe Wright								1	

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside
	KANAWHA COUNTY—Con.									
37	Hughes Creek No. 2	Jeff Jones	2-19-12	American	7 Yrs.	21	Miner	Fall of slate.	Right leg crushed and broken above ankle	1
38	Imperial No. 3	Thurmond Johnson	3-4-12	American	5 Yrs.	25	Mch. Helper	Fall of coal.	Injured back	1
39	Wake Forest	William Brannon	3-6-12	American	1 Yr.	20	Brakeman	Mine car	Cut to rear of ear and bruised chest	1
40	West Virginia No. 2	Mike Filipieskie	3-6-12	Russian	5 Yrs.	36	Loader	Fall of slate	All radius of back and left shoulder and ankle sprained and bruised	1
41	North	Thomas Mitchell	3-10-12	Negro	6 Mos.	16	Trapper	Running after loaded car	Broken arm	1
42	Cakley	William Thornhill	3-12-12	Negro	3 Yrs.	25	Miner	Mine car	Dislocation of elbow	0
43	West	John Markham	3-25-12	American	25 Yrs.	37	Miner	Fall of slate	Head lacerated and foot badly bruised	1
44	Blakeley	D. W. Bowe	3-29-12	American	12 Yrs.	46	Mch. Runner	Fall of coal	Strains of back, shoulder and knee.	1
45	West	Jac. H. Turnside	4-5-12	American	20 Yrs.	46	Miner	Run over by mine car	Leg fractured between knee and ankle	1
46	Imperial No. 1	Theo. Sullivan	4-18-12	Negro	5 Yrs.	40	Statenman	Slate fall	Ankle broken, shoulder fractured, hand sprained and face bruised.	1
47	Williams	Rastus Edgar Naylor	4-22-12	American	6 Yrs.	21	Driver	Run over by mine car	Foot mashed and several bones broken.	1
48	Cannelton No. 1	Walter Whitney	5-23-12	Negro	5 Yrs.	36	Mch. Runner	Fall of loose slate	Left knee and left forearm severely injured	1
49	Wills Hollow No. 2	Shelton Burd	6-4-12	American	9 Yrs.	24	Mch. Runner	Fall of slate	Contused wound of left leg and lacerations about head	1
50	Kellys Creek No. 3	Alex. Mozoros	6-12-12	Hungarian	2 Yrs.	28	Loader	Fall of draw slate	Compound fracture of nose and dislocation of hip.	1
51	Imperial No. 1	James Torley	6-19-12	Negro	1 Yr.	25	Mch. Runner	Fall of slate	Severe sprain of back with possible spinal injury	1
52	Sunday Creek No. 104	Ernest Todd	6-21-12	American	1 Yr.	16	Loader	Fall of slate	Right leg broken above knee and bruised below knee	1
53	Thisle	Boyd Cole	6-25-12	American	16 Yrs.	34	Loader	Fall of draw slate	Broken leg	1
	FAYETTE COUNTY									
1	Columbus L & S. No. 1	Bee Brown	7-1-11	American	1 Yr.	21	Brakeman	Mine cars	Leg crushed and several compound fractures.	1
2	MacDonald	Walter Hutchinson	7-1-11	Negro	8 Yrs.	46	Backhand	Explosion of powder cap	Right hand blown off, fingers of left blown off and general injuries	1
3	Lavland No. 2	G. M. Lee	7-10-11	Negro	3 Yrs.	22	Miner	Mine car	Large bone in forearm fractured	1
4	Oakwood	H. H. Harris	7-12-11	English	2 Yrs.	23	Mch. Helper	Fall of slate	Two ribs fractured and contusion of body	1
5	Loup Creek No. 2	John Clay	7-17-12	American	7 Yrs.	30	Miner	Fall of coal	Left foot severely bruised and general lacerated condition of body	1
6	Kilaythe	Carmella Argina	7-18-11	Italian	4 Yrs.	26	Miner	Premature explosion of shot	Multiple fracture of hand, wrist and forearm and lacerated thumb	1
7	Thayer	Frank Lichtner	7-19-11	American	15 Yrs.	37	Miner	Fall of draw slate	Contusions about hips	1
8	Star	John Zaccaris	7-22-11	Pole	5 Yrs.	29	Mch. Runner	Mine car and machine	Contused and lacerated wound of ankle and hand	1
9	Marting	Sam Bery	7-22-11	Hungarian	2 Yrs.	24	Miner	Explosion of shot	Lacerations of face and hands	1

10 Nicol	Condo Stanley	7-24-11 American	1 Yr.	16 Trapper	Mine cars	Brises and laceration of ribs leg.
11 Irish Run	Joe Sands	7-25-11 Negro	3 Yrs.	25 Miner	Fall of coal	Collar bone breaking
12 Sunday Creek No. 112	Edward McGaw	7-25-11 American	1 Yr.	25 Miner	Arm caught in machinery	Arm crushed necessitating amputation
13 Loup Creek No. 2	Vesper A. Payne	7-31-11 American	6 Mos.	16 Motorman	Caught between motor and rib	Left arm broken and hip bruised
14 Thayer	James Smith	8-3-11 American	10 Yrs.	54 Miner	Injured by truck on incline	Leg broken
15 Lyman	John Kudnai	8-5-11 Slav	1 Yr.	20 Miner	Fall of roof	Brused back and severely contused hip
16 Nichol	Morris Kutz	8-5-11 Negro	5 Yrs.	22 Mc. Runner	Caught in coin of machine	Deep lacerations of heel, foot and calf
17 Kilsyth	William Dorsey	8-8-11 Negro	15 Yrs.	16 Miner	Mine car	Fracture of fibula
18 Red Ash	Arion Carver	8-10-11 Negro	15 Yrs.	45 Tracklayer	Thrown by rope of locomotive	Fracture of right leg above ankle
19 Kennedy Creek	Arion Carver	8-11-11 American	20 Yrs.	35 Miner	Fall of slate	General contusions
20 Nichol	Ray Sexton	8-11-11 American	1 Yr.	16 Trapper	Run over by motor	One leg and one foot mased
21 Fire Creek	Archie Neighbors	8-11-11 Negro	1 Mo.	15 Car-oller	Struck by tail rope	Leg broken
22 Red Ash	Ira Hoffman	8-11-11 American	3 Yrs.	22 Pumper	Caught in pump machinery	Arm crushed necessitating amputation
23 Red Ash	Walter Tucker	8-16-11 American	12 Yrs.	27 Miner	Fall of top coal	and shoulder blade fractured
24 Nichol	Aubrey Blake	8-16-11 American	6 Mo.	15 Trapper	Caught between roof and car	Fracture of spine
25 New River-Poca, No. 2	Gurley Thomas	8-22-11 Negro	10 Yrs.	33 Miner	Fall of rock	Left arm broken and right leg severely cut
26 Stuart	Cleave Hanson	8-22-11 American	5 Yrs.	28 Mcb. Runner	Caught in machine	Scalp wound and fracture of shoulder
27 Nichol	Joe Pasnach	8-24-11 Pole	19 Yrs.	45 Miner	Fall of bone coal	Leg broken
28 Brooklyn	Rufus Lumpkins	8-24-11 Negro	2 Yrs.	25 Brakeman	Explosion of cap	Back bruised
29 Oakwood	John Elko	8-25-11 Pole	5 Yrs.	25 Miner	Caught between motor and rib	Leg broken below knee
30 New River-Poca, No. 2	William Perry	8-25-11 American	19 Yrs.	36 Mcb. Runner	Caught between car and rib	Fractured wrist bone and lacerated hand
31 Turkey Knob	Kyle Spade	9-2-11 American	6 Mos.	15 Trapper	Caught between car and entry-rib	Fingers on left hand crushed
32 Oakwood	Alex Kobotko	9-6-11 Pole	7 Yrs.	35 Miner	Fall of top coal	One broken bone in lower right arm
33 Columbus I. & S. No. 1	Emils Eiler	9-7-11 Hungarian	6 Yrs.	48 Miner	Caught between coal and machine	Compound fracture of left leg and contusion of hips and back
34 Kilsyth	Charley Edwards	9-9-11 Negro	3 Yrs.	30 Miner	Caught between coal and car	Right leg broken
35 Kilsyth	Chip Cunningham	9-13-11 American	2 Yrs.	25 Driver	Mine car	Hand injured
36 New River-Poca, No. 5	Wm. E. Spears	9-14-11 American	6 Yrs.	23 Mcb. Helper	Caught in mining machine	Cut upon body and contusion of elbow
37 Columbus I. & S. No. 1	Langdon DePorter	9-15-11 American	2 Yrs.	16 Spragger	Caught between sprag and car	Little finger on left hand amputated
38 Nova Scotia	Pete Martin	9-19-11 American	9 Yrs.	28 Miner	Fall of draw slate	Fore-arm mashed necessitating amputation of arm
39 Nova Scotia	Hugh G. Wills	9-21-11 American	5 Yrs.	21 Brakeman	Mine cars	Mashed through hips
40 Carlisle	Avilham Haralek	9-21-11 Pole	4 Yrs.	24 Miner	Explosion of shot	Dislocation of hip and bruises about body
41 Elk Ridge No. 2	G. H. Hartwell	9-23-11 American	4 Yrs.	50 Blacksmith	Mine cars	Probable total loss of sight
42 Sunday Creek No. 114	Joe Garrofa	9-29-11 Italian	2 Yrs.	16 Loader	Fell while leaving the tippie	Left shoulder blade and one rib broken together with body bruises
43 Nichol	Thomas Mills	10-2-11 Negro	5 Yrs.	28 Mcb. Helper	Caught between mine cars	Left arm broken
44 Layland No. 3	Eugene Bosco	10-10-11 Italian	5 Yrs.	24 Motorman	Thrown by touching charged wire	Neck, shoulders and head badly bruised
45 Turkey Knob	Kyle Spade	10-14-11 American	7 Mos.	15 Trip-ider	Caught between mine cars	Deep incision between eye and nose
46 Kaymoor No. 1	Chas. Williams	10-14-11 Negro	6 Yrs.	22 Driver	Run over by mine car	Bone in left leg fractured
47 New River-Poca, No. 5	Willard Dixon	10-19-11 American	7 Mos.	20 Brakeman	Mine cars	Right arm broken and contused wound of left foot
48 New River-Poca, No. 5	Larry Chapman	10-23-11 American	3 Mos.	19 Brakeman	Run over by mine-motor	Crushed foot
49 Stuart	Steve Anchow	11-1-11 Pole	5 Yrs.	24 Loader	Mine cars	Ankle displaced and foot mashed
50 Stuart	Howard Young	11-6-11 American	4 Yrs.	19 Motorman	Came in contact with wire	Fractured leg and arm
51 Martine No. 1	Chas. Nelson	11-9-11 American	5 Yrs.	22 Brakeman	Fell from motor	Back, arm and foot burned
52 Sunday Creek No. 114	James Carr	11-7-11 Negro	2 Yrs.	30 Tippleman	Fell with iron rail	Back grazined and bruised
53 Oakland No. 4	Will Clayborne	11-8-11 Negro	5 Yrs.	25 Tippleman	Caught between car and platform	Toe broken
54 Sunday Creek No. 112	Sam Lynch	11-9-11 American	2 Yrs.	24 Motorhelper	Caught between car and rib	Left arm and two ribs fracture! Contused back and lacerated thigh

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
FAYETTE COUNTY—Con.										
55	Star	Stany Suchowlaski	11-14-11	Pole	6 Mos.	30	Miner	Caught between two cars.	Contused and lacerated wounds of left leg.	I
56	Long Creek No. 2	Clyde Harler	11-15-11	American	14 Yrs.	28	Miner	Fall of slate.	Sprained ankle and lody bruises.	I
57	Sunday Creek No. 114	J. A. Reed	11-16-11	American	2 Yrs.	28	Engineer	Mine cars.	Broken leg.	I
58	Turkey Knob	John B. Hutton	11-18-11	American	8 Yrs.	23	Trapper	Mine cars.	Left arm fractured.	I
59	Complatus Lk S. No. 1	Fred Harless	11-23-11	American	1 Yr.	15	Trapper	Mine cars.	Fracture of left radius.	I
60	Turkey Knob	Jan Hadzula	11-23-11	Pole	3 Yrs.	28	Miner	Fall of slate.	Sprained ankle.	I
61	Boomer No. 2 South	Toney Glenn	11-24-11	Italian	1 Yr.	22	Machine-man	Caught in machine.	Right foot lacerate, ankle fractured and knee cut.	I
62	Brooklyn	Ed Blake	11-24-11	American	10 Yrs.	35	Miner	Fall of slate.	Left side bruised.	I
63	Brooklyn	James Selfaugh	11-24-11	American	5 Yrs.	24	Laborer	Fall of slate.	Back sprained.	I
64	Minden No. 2	Walter Rosen	11-25-11	American	5 Yrs.	43	Miner	Fall of top coal.	Collar bone fractured.	I
65	Rush Run No. 1	George Kelly	11-29-11	American	21 Yrs.	35	Bratticeman	Gas Explosion.	Head and arms burned.	I
66	Stuart	Dan Fullerman	12-1-11	Italian	2 Yrs.	36	Miner	Fall of slate.	Foot slightly mashed.	I
67	Brooklyn	Lawrence Ashbury	12-2-11	American	4 Yrs.	20	Brakeman	Run over by mine car.	Left ankle injured.	I
68	Boomer No. 4	Mark Haptonstoll	12-5-11	American	4 Yrs.	40	Miner	Fall of slate.	Right knee fractured and dislocated and side bruised.	I
69	Elvorton	B. T. Smith	12-5-11	American	10 Yrs.	36	Weighmaster	Unloading car.	Bone in left forearm fractured.	O
70	Sunday Creek No. 115	Lewis Talner	12-5-11	American	7 Mos.	28	Car-trimmer	Struck by lump of coal.	Head cut.	O
71	Douglas No. 3	R. A. Woodrum	12-9-11	American	5 Mos.	28	Mch. Helper	Fall of slate.	Leg broken below knee.	I
72	Sunday Creek No. 115	Will Chautlaiss	12-9-11	Negro	2 Yrs.	31	Laborer	Fall of slate.	Right cheek bone broken.	I
73	Elvorton	Eliza Clark	12-11-11	Negro	1 Yr.	24	Brakeman	Mine cars.	Leg crushed.	I
74	Elvorton	Antonio Shorky	12-11-11	German	8 Yrs.	42	Miner	Fall of coal.	Contusion of back.	I
75	Layland No. 2	John Brotzky	12-12-11	Pole	3 Yrs.	27	Miner	Fall of bone coal.	Broken collar bone.	I
76	Nichol	Mike Mengor	12-13-11	Italian	4 Yrs.	22	Brakeman	Run over by mine car.	Contusion of chest and stomach.	I
77	Laura	John Helton	12-18-11	American	3 Yrs.	37	Miner	Fall of slate.	Lacerated wound of left arm and minor bruises.	I
78	Thurmond No. 1	Herman Duncan	12-18-11	American	1 Day	17	Laborer	Fall of slate.	Left arm broken and left leg dislocated at thigh.	I
79	Akwood	W. C. Mitchell	12-20-11	American	5 Yrs.	38	Miner	Fall of slate.	Left collar bone and rib fractured.	I
80	Sunday Creek No. 115	Engi St. p. e.	12-2-11	Negro	4 Mos.	13	Trapper	Mine cars.	Fracture of right arm.	I
81	Elvorton	Osar B. Wyer	12-2-11	American	2 Yrs.	20	Loader	Fall of slate.	Sprain of back and left side.	I
82	Elvorton	Leouzo F. Miller	1-3-12	American	2 Yrs.	20	Miner	Fall of coal and slate.	Simple fracture of both bones of right leg.	I
83	Sunday Creek No. 114	L. V. G. son	1-9-12	Negro	2 Mos.	22	Tranler	Caught between car and post.	Fracture of left arm.	O
84	Sunday Creek No. 111	William Thompson	1-10-12	Negro	1 Yr.	45	Miner	Struck by piece of coal.	One rib broken.	I
85	Laura	William Dorson	1-12-12	Negro	20 Yrs.	40	Miner	Fall of slate.	Back sprain and minor bruises.	I
86	South Side	William Lampkins	1-12-12	Negro	7 Yrs.	23	Miner	Fall of draw slate.	Right leg broken between knee and ankle.	I
87	Carlsale	Mike Zeppa	1-13-12	Pole	2 Mos.	18	Driver	Fell from mine car.	Right collar bruised and general bruises about body.	I
88	Nichol	Gordon Spradlin	1-15-12	American	5 Yrs.	20	Tippelman	Gear wheel fell on foot.	Broken toe and mashed foot.	O

89	Boomer No. 2 North.	Frank Johnson.	1-15-12 American.	1 Yr.	40	Machineman.	Mine cars.	Right leg fractured below knee	1
90	Sunday Creek No. 115	Morris Lumsbaugh.	1-16-12 Negro.	1 Yr.	39	Motorman.	Caught between two cars.	Left leg broken.	0
91	Sunday Creek No. 114	C. W. Underwood.	1-22-12 American.	10 Yrs.	50	Tippleman.	Dumped from tuppel.	Dislocation of left elbow.	0
92	Auslytic.	Joe Suisko.	1-22-12 Slav.	10 Yrs.	46	Suadean.	Fall of slate.	Head cut and back and chest contused.	1
93	Miner No. 3.	John Jamison.	1-23-12 Lithuanian.	7 Yrs.	28	Miner.	Run over by mine motor.	Compound fracture of leg.	1
94	Suairt.	Joe Covoski.	1-29-12 Pole.	3 Yrs.	24	Miner.	Fall of coal and slate.	Left foot severely injured.	1
95	Sun No. 1.	Steve Orndoff.	2-5-12 Italian.	2 Yrs.	27	Miner.	Fall of slate.	Back bruised.	1
96	Sun No. 1.	Steve Orndoff.	2-5-12 Italian.	2 Yrs.	27	Miner.	Fall of coal and slate.	Leg cut off between leg and ankle.	1
97	Miner No. 5.	Frank Sabo.	2-6-12 Slav.	7 Yrs.	29	Mch. Helper.	Foot caught in ties.	Simple fracture of the left leg.	1
98	Layland No. 2.	Boyd Jones.	2-25-12 Negro.	3 Yrs.	17	Trip-rider.	Caught between mine cars.	Extensive laceration and contusion of right leg.	1
99	Layland No. 1.	Frank Edmofsky.	2-26-12 Pole.	4 Yrs.	26	Miner.	Fall of slate.	Fracture of leg and elbow and several lacerations of arm and head.	1
100	Layland No. 2.	Nick Spoharitz.	2-28-12 Austrian.	2 Yrs.	32	Miner.	Fall of slate.	Right leg fractured above knee.	1
101	Auslytic.	Low Bash.	3-5-12 Italian.	6 Mos.	18	Miner.	Premature explosion of shot.	Back and neck injured slightly.	1
102	Auslytic.	Charles Sawyer.	3-18-12 American.	5 Yrs.	18	Driver.	Foot fell on injured person.	Left side and back bruised.	1
103	Sunday Creek No. 112	A. L. Harrison.	3-19-12 Negro.	5 Yrs.	30	Mch. Runner.	Explosion of shot.	Bruse over right eye and left eye badly bruised.	1
104	Lick Branch.	Henry Paulcy.	3-21-12 Negro.	2 Yrs.	28	Trip-rider.	Run over by motor.	Thumb cut off.	1
105	Beechwood No. 2.	W. C. Richmond.	3-21-12 American.	3 Yrs.	29	Miner.	Explosion of shot.	Miner badly bruised.	1
106	Oakwood.	Asberry Blake.	3-27-12 American.	4 Yrs.	27	Miner.	Fall of roof.	Left leg broken and badly bruised.	1
107	Jones.	Andrew Basques.	4-2-12 Spanish.	2 Yrs.	23	Miner.	Run over by mine cars.	Lacerated wound of left leg and right leg broken.	1
108	Carlisle.	Frank Sink.	4-9-12 American.	4 Yrs.	29	Cager.	Caught by mine car.	Compound fracture of right leg.	1
109	Durree.	Herbert A. Lock.	4-10-12 American.	8 Yrs.	22	Leader.	Fall of coal.	Foot mashed.	1
110	Layland No. 3.	John Chittum.	4-11-12 American.	4 Yrs.	19	Trip-rider.	Mine car.	Collar bone broken and bruised about head and neck.	1
111	Layland No. 3.	Thos. Bendic.	4-12-12 Austrian.	8 Yrs.	35	Miner.	Mine cars.	Right leg fractured.	1
112	New River-oca No. 5	Chas. Tomczak.	4-19-12 Lithuanian.	6 Yrs.	25	Mch. Runner.	Injured by machine.	Fracture of left leg.	1
113	Ephraim Creek.	Richard Mutchison.	4-19-12 American.	5 Yrs.	18	Mch. Helper.	Struck by part of machine.	Leg broken.	1
114	Turkey Knob.	Geo. Henderson.	4-20-12 Negro.	3 Yrs.	26	Miner.	Fall of slate.	Right leg broken in two places.	1
115	Fort Dehance.	William Grant.	4-20-12 Negro.	10 Yrs.	30	Driver.	Fall of slate.	Right shoulder and side injured.	1
116	Jones.	Clark Kesler.	4-22-12 American.	18 Yrs.	41	Driver.	Fall of slate.	Bone in left ankle broken.	1
117	Sugar Creek No. 1.	Jas. White.	4-22-12 American.	8 Mos.	14	Miner.	Mine cars.	Severe incision in right foot.	1
118	Auslytic.	John Wer.	4-29-12 American.	13 Yrs.	31	Trapper.	Fall of slate.	Right foot mashed and lacerated.	1
119	Turkey Knob.	W. T. Minnslee.	5-1-12 Negro.	3 Yrs.	34	Miner.	Fall of slate.	Leg and foot injured.	1
120	Nichol.	Mike Nurack.	5-3-12 Pole.	3 Wks.	25	Miner.	Mine car.	Right foot injured.	1
121	Export.	George Flint.	5-7-12 American.	9 Yrs.	27	Miner.	Fall of slate.	Left leg broken between knee and ankle and shoulder scratched.	1
122	Nichol.	John Ewory.	5-15-12 Hungarian.	5 Yrs.	28	Miner.	Fall of coal and slate.	Several ribs broken and spine injured.	1
123	Carbonade No. 11.	John Wise.	5-16-12 American.	10 Yrs.	40	Miner.	Fall of slate.	Lower dorsal region bruised and contused.	1
124	Loup Creek No. 2.	Burrell Turner.	5-17-12 American.	6 Mos.	18	Miner.	Fell while at work.	Left arm broken.	1
125	Sun.	John Dugas.	5-20-12 American.	1 Yr.	31	Trackman.	Mine car.	Laceration on hand torn and small bone broken in arm.	1
126	Sun.	J. L. Pleasant.	5-21-12 American.	5 Yrs.	37	Electrician.	Came in contact with current.	Burned about face.	1
127	Camelton No. 1.	Walter Whitney.	5-23-12 American.	6 Yrs.	36	Miner.	Fall of slate.	Arm and knee severely injured.	1
128	Sun.	G. Manuel.	5-24-12 Italian.	2 Yrs.	30	Laborer.	Railroad car.	Three toes cut off and knee bruised.	0
129	Stone Cliff.	Jess Hugginsbottom.	5-24-12 American.	7 Yrs.	22	Motor Runner.	Caught between post and motor.	Injured ankle.	1
130	Layland No. 2.	Grove Gaglianolo.	5-25-12 Italian.	4 Yrs.	50	Miner.	Mine car.	Contused wound of leg.	1
131	Fire Creek.	Matheny, J. W.	6-7-12 American.	11 Yrs.	36	Engineer.	Caught in machinery.	Loss of left arm.	0

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
FAYETTE COUNTY										
132	Stichol	—Con. Robert Arnoll	6- 8-12	Negro	2 Yrs.	22	Brakeman	Mine cars	Loss of finger	—
133	Turkey Knob	H. Price	6-10-12	Negro	5 Yrs.	35	Miner	Fall of top coal	Badly crushed foot	—
134	Sugar Camp	John Riley Jr.	6-15-12	American	10 Yrs.	22	Miner	Explosion of shot	Struck in face and eyes with fine coal	—
135	Mevca No. 2	Otto E. Grogan	6-17-12	American	5 Yrs.	20	Driver	Run over by mine cars	Broken leg	—
136	New River-Poca. No. 4	Frank Miller	6-19-12	Lithuanian	6 Yrs.	40	Miner	Fall of slate	Left thigh broken	—
137	Kilsythe	Tony Begala	6-20-12	Italian	3 Yrs.	23	Miner	Fall of slate	Severe cut above right eye	—
138	Nuttall	Joc Stables	6-26-12	American	10 Yrs.	24	Stable-hoss	Explosion of powder	Burned about face, hands and arms	—
139	South Side	Allen Kitchen	6-26-12	American	25 Yrs.	40	Miner	Fall of coal	Compound dislocation of ankle	—
140	Christian No. 1	H. D. Flaughter	6-28-12	American	2 Yrs.	20	Mch. Helper	Fall of coal	Small bone broken in both legs and right knee badly strained	—
RALEIGH COUNTY										
1	Beckley	Christmas Rai	7-10-11	Italian	5 Yrs.	33	Miner	Fall of slate	Head cut and bruised	—
2	Beckley	Dominick Schinto	7-10-11	Italian	2 Yrs.	30	Driver	Caught between two mine cars	Mashed leg	—
3	Ralouth No. 1	Wm. Underwood	7-12-11	American	12 Yrs.	40	Pump-hand	Caught in shaft machinery	Right leg cut and bruised	—
4	Big Stick	Basil Eyok	7-22-11	Austrian	5 Yrs.	35	Miner	Fall of slate	Two ribs broken, head cut and left side of body bruised	—
5	Raleigh No. 6	John Latsack	7-26-11	Slav	1 Yr.	33	Miner	Fall of slate	Right leg broken above knee	—
6	Sarta	Bee Cook	7-29-11	American	10 Yrs.	24	Motorman	Caught between motor and machine	Right ankle mashed necessitating amputation	—
7	Slab Fork No. 3	C. D'camelli	8- 3-11	Italian	5 Yrs.	30	Loader	Mine cars	Small abrasion over right ear erysipelas resulting	—
8	Blue Jay	Nathan B. Cox	8- 3-11	American	2 Yrs.	38	Miner	Fall of slate	Broken leg, later amputated	—
9	Scholesbury No. 3	Carusi Manz	8- 5-11	Italian	3 Yrs.	33	Miner	Fall of rock	Right leg broken	—
10	Slab Fork No. 2	Garrison Allen Lafferty	8- 9-11	American	5 Yrs.	40	Miner	Fall of slate	Abdomen badly injured and right hip joint badly sprained	—
11	Piney No. 1	Frank S. Meador	8-10-11	American	2 Mos.	20	Trap-rider	Caught between mine cars	Broken leg and mashed foot	—
12	Malsecott	Henderson Jones	8-15-11	Negro	11 Yrs.	29	Miner	Fall of slate	Leg broken	—
13	Affinity	Alva Richmond	9- 5-11	American	10 Yrs.	22	Motorman	Fall of slate	General body bruises with possibility of internal injuries	—
14	MacAlpin	J. C. Russell	9-11-11	Negro	9 Yrs.	30	Miner	Fall of coal	Right collar bone fractured and chest badly contused	—
15	Beckley	Edward Martin	9-12-11	American	12 Yrs.	22	Trap-rider	Caught while coupling motors	Index finger cut off	—
16	Leevale	John Carbia	9-13-11	Greek	1 Yr.	40	Miner	Explosion of shot	Bruises and cuts on neck and chest	—
17	Dorothy	Poraskas Ponaras	10- 3-11	Greek	1 Yr.	30	Miner	Fall of coal	Contusion about hips and abdomen, and	—
18	Affinity	Richard Wright	10- 9-11	American	2 Mos.	19	Miner	Powder explosion	and cut on head Powder burns on face, hands, head and both forearms	—

19 Stolebury	William Smith	10-11-11 Negro	1 Yr.	27 Miner	Struck by lump of coal	Broken arm	1
20 Wright No. 2	Matt Redden	10-11-11 American	20 Yrs.	50 Miner	Struck by flying coal	Eyes and face cut by small pieces of coal	1
21 Raleigh No. 6	Lail Dixon	10-13-11 American	2 Wks.	17 Trip-riider	Fall of slate	Right hip dislocated	1
22 Piney No. 1	Sam Deamsey	10-17-11 Hungarian	5 Yrs.	24 Miner	Fall of slate	Nose broken, neck cut and back sprained and contused	1
23 Dorothy	Steve Scoulas	10-23-11 Greek	2 Yrs.	45 Miner	Fall of slate	Cut on right leg	1
24 Affinity	Aaron Bowman	10-26-11 American	2 Yrs.	19 Miner	Mine car	Right arm bruise, leg bruised and possible internal injuries	1
25 Beckley	Ed. Warlen	10-27-11 American	2 Yrs.	22 Trip-riider	Caught between motor and roof	Mashed through hips	1
26 Affinity	P. E. Mentz	10-29-11 American	12 Yrs.	31 Engineer	Opened valve accidentally	Face burned by steam	1
27 Lanark No. 4	Juan Cruz	11-2-11 S. ansia	4 Mos.	35 Miner	Fall of slate	Four ribs broken	1
28 Beckley	Romeo Inocencio	11-9-11 Italian	2 Yrs.	22 Miner	Mine car	Arm broken	1
29 Piney No. 3	John Woods	11-10-11 Negro	5 Yrs.	35 Miner	Fell from mine car	Collar bone broken	1
30 Piney No. 3	Isaac Williams	11-13-11 American	3 Yrs.	42 Miner	Fall of slate	Right rib broken	1
31 Sarta	Robert Fraley	11-13-11 American	3 Yrs.	16 Miner	Fall of coal	Small bruises along back and right arm bruised	1
32 Wright No. 2	Geo. A. Smith	11-13-11 American	20 Yrs.	50 Miner	Fall of slate	Right hand badly cut	1
33 Raleigh No. 1	William Hart	11-26-11 American	30 Yrs.	45 Mine Boss	Fall of slate	Left leg broken	1
34 Gulf	Geanty Gray	11-27-11 Negro	10 Yrs.	40 Miner	Fall of slate	Possible internal injuries and injury to spinal column	1
35 Dorothy	Nile Handley	12-5-11 American	5 Yrs.	25 Brakenan	Caught between motor and rib	Contusion of right hip	1
36 Bailey Wood No. 1	Joe Jesinski	12-6-11 Russian	6 Yrs.	23 Miner	Fall of coal	Compound fracture of left leg below knee	1
37 Clear Fork	Jas. R. Canterbury	12-1-18 American	2 Yrs.	22 Miner	Fall of slate	Contusion of hand, cheek, back and neck	1
38 Piney No. 1	James Spears	12-13-11 Scotch	20 Yrs.	47 Miner	Caught between car and roof	Back sprained and partial paralysis of lower extremities	1
39 Affinity	Winfield Manley	12-13-11 American	12 Yrs.	33 Mch. Runner	Caught under truck of machine	Toes mashed and cut	1
40 Affinity	Acie C. Gearhart	12-14-11 American	10 Yrs.	27 Miner	Fall of slate	Body bruises and possible internal injuries	1
41 Raleigh No. 2	Millard Young	12-14-11 American	10 Yrs.	37 Miner	Fall of draw slate	Cut on chest	1
42 E. E. White	Deuesso Versocio	12-18-11 Italian	2 Yrs.	18 Switch-boy	Foot caught under motor	Toes of foot mashed, four amputated	1
43 Bailey Wood	Moses Sales	1-2-12 American	6 Yrs.	36 Miner	Fall of top	Broken thigh	1
44 Piney No. 3	Louey Ewing	1-3-12 American	2 Yrs.	15 Trapper	Powder explosion	Serious burns of right side	1
45 Affinity	Alexander Russell	1-3-12 American	10 Yrs.	22 Mch. Runner	Foot caught in machine	Right foot cut and bruised	1
46 Raleigh No. 6	Paul Mahalick	1-15-12 Slav	4 Yrs.	30 Miner	Mine car	Left hip bruised	1
47 E. E. White	Winston Grayston	2-1-12 Negro	1 Yr.	20 Trip-riider	Mine car	Compound dislocation of left shoulder joint	1
48 Dorothy	Samuel Kidwell	2-2-12 American	8 Yrs.	18 Motorman	Mine car	Cut through skin and flesh of left foot	1
49 Sullivan	George Giegus	2-5-12 American	1 Yr.	21 Miner	Fall of slate	Broken collar bone	1
50 Bailey Wood	J. W. Wilson	2-12-12 American	10 Yrs.	24 Miner	Fall of coal	Broken shoulder blade, fractured rib and body bruises	1
51 Sidney	C. E. Check	2-22-12 American	30 Yrs.	50 Asst. M. F'r'n	Motor left track injuring man	Mashed through left side of chest and left shoulder with two cuts	1
52 Sullivan	Daton Canterbury	2-29-12 American	3 Yrs.	17 Trip-riider	Run over by mine cars	Left arm and leg broken	1
53 Dorothy	Steve Kozmo	3-18-12 Hungarian	5 Yrs.	34 Miner	Powder explosion	Severe burns on left hand and face and slight burns on right hand	1
54 Price Hill	Ludwiger Charzat	4-5-12 Pole	5 Yrs.	41 Miner	Fall of slate	Hip dislocated	1
55 Peeds No. 1	Charles Robertson	4-10-12 Negro	8 Yrs.	24 Driver	Kicked by mule and run over	Bruises about body and head	1
56 Lanark	Mike Popp	4-17-12 Russian	7 Yrs.	32 Miner	Explosion of shot	Injured face and eyes	1
57 Peeds No. 3	Petre Dugg	4-22-12 Lithuanian	10 Yrs.	52 Walter Bailor	Mine car	Leg broken	1
58 Graham	John Vargo	4-23-12 Pole	5 Yrs.	35 Miner	Fall of slate	Back broken, fracture of right leg above ankle	1

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
RALEIGH COUNTY										
59	Affinity	—Con. Hiram Richmond	4-30-12	American	10 Yrs.	20	Motorman	Caught between car and timbers	Back bruised generally and symptoms of internal injury	I
60	Tamroy	James Sauton	4-30-12	American	10 Yrs.	45	Miner	Fall of slate	Right arm broken and left ankle fractured	I
61	Affinity	John Hanka	5-10-12	American	1 Yr.	15	Brakeman	Caught between mine cars	Right leg bruised and tibia broken about midway between ankle and knee	I
62	Eccles No. 1	Moti Antonio	5-14-12	Italian	5 Yrs.	39	Driver	Caught between roof and car	Badly bruised through chest	I
63	Sprague	Annias Bassett	5-16-12	Negro	15 Yrs.	39	Miner	Fall of slate	Right leg fractured in two places	I
64	Price Hill	J. Lustick	5-21-12	Slav	2 Yrs.	23	Car-compler	Caught between mine cars	Hand injured	I
65	Price Hill	Nathan Atla	5-22-12	American	4 Yrs.	20	Cager	Injured in mine shaft	Leg broken below knee	I
66	Affinity	Hiram Richmond	5-30-12	American	5 Yrs.	20	Brakeman	Struck by timbers	Two bones broken in right leg immediately above ankle	I
67	Affinity	Fred C. Brown	5-30-12	American	2 Yrs.	22	Coupler	Mine car	Left hip and back bruised	I
68	Raleigh No. 4	John Legaso	5-30-12	Slav	6 Yrs.	28	Miner	Caught in machine	Right foot cut	I
69	Stonesbury	Talocko Powell	5-31-12	Italian	3 Yrs.	35	Miner	Caught between motor and car	Broken leg	I
70	Dorothy	Geo. Hurson	6-1-12	Slav	6 Yrs.	40	Miner	Premature explosion of shot	Cut on head and left thigh broken	I
71	Sarta	James Harnoyya	6-3-12	Italian	6 Mos.	51	Laborer (Outs.)	Run over by truck	Right leg fractured, right ankle dislocated and left arm fractured	I
72	Winding Gulf No. 1	Will Carter	6-7-12	Negro	1 Yr.	23	Triprider	Caught between mine cars	Left foot smashed and cut on instep	I
73	Tamroy	Anton Hualterio	6-19-12	Italian	1 Yr.	28	Miner	Fall of slate	Fracture of leg and arm	I
74	Lanark No. 14	Enoch Moore	6-22-12	American	2 Yrs.	32	Miner	Fall of slate	Compound fracture of leg also slight cut	I
75	Sullivan	Stonie Sonie	6-26-12	Italian	10 Yrs.	24	Miner	Mine cars	Foot mashed	I
MERCER COUNTY										
1	Crane Creek No. 1	Pete Fissanni	7-6-11	Italian	5 Yrs.	36	Miner	Fall of coal	Compound fracture of left leg below knee	I
2	Sagamore	Luther Burryman	7-17-11	American	2 Mos.	13	Flagman	Caught by cable on incline	Two small leaders of right foot cut	I
3	Mill Creek	Robt. Gongs	8-2-11	Negro	3 Yrs.	23	Miner	Fall of coal and slate	Head injured and fracture of one bone in left leg	I
4	Caswell Creek	John A. Martin, Sr.	8-15-11	American	11 Yrs.	61	Miner	Caught between mine cars	Severe laceration of left leg	I
5	Piedmont	Guy Carter	8-31-11	Negro	6 Yrs.	25	Driver	Mine car and machine caught leg	Leg broken	I
6	Coaldale	Jeff Gwinn	9-5-11	Negro	20 Yrs.	49	Miner	Mine car	Third and fourth ribs on left side fractured	I
7	Smokeless	William Tabor	9-9-11	American	5 Yrs.	33	Miner	Fall of coal	One bone in right arm fractured and bone in left arm fractured	I
8	Booth Bowen	Frank Carden	9-12-11	American	10 Yrs.	35	Miner	Fall of slate	Scalp wound	I
9	Wyanoke	Frank Corpi	9-21-11	Italian	6 Mos.	30	Miner	Fall of slate	Back sprained and cut and head cut	I
10	Crane Creek No. 1	Toney Odol	9-27-11	Hungarian	5 Yrs.	28	Miner	Fall of slate	Foot mashed	I
11	Spring	Paul Kukarc	10-9-11	Pole	1 Yr.	32	Miner	Fall of coal	Collar bone and shoulder dislocated	I
12	Caswell Creek	S. E. Maxey	10-18-11	American	20 Yrs.	33	Miner	Fall of slate	Spinal injuries	I
13	Pinnacle	J. N. Johnson	10-18-11	American	12 Yrs.	46	Miner	Fall of slate	Left shoulder bruised, fracture of nose and muscles of back fractured	I

14	Crane Creek	Wade Lowman	10-31-11	American	2 Yrs.	19	Pump-runner	Struck by mine cars	Four severe incisions of left leg and various flesh bruises	I
15	Smokeless	Angelo Trappessa	11-2-11	Italian	5 Yrs.	45	Miner	Fall of coal	Fracture of one bone of left leg	I
16	Wenonah No. 1	Steve Miner	11-7-11	American	5 Yrs.	35	Miner	Fall of slate	Broken leg and cuts on face and hands	I
17	Crane Creek	Milard Jewell	11-10-11	American	8 Yrs.	24	Driver	Caught between car and rib	Right thigh severely injured	I
18	Casewell Creek	Joseph C. Updell	11-27-11	Italian	2 Yrs.	36	Miner	Fall of top coal	Scalp wounds, hip injured and toe mashed	I
19	Crane Creek	Francis Ferreault, Sr.	12-4-11	Italian	10 Yrs.	30	Modern	Fell from picking table	Dislocated left elbow	I
20	Crane Creek	Frank Ferreault, Jr.	12-4-11	Italian	18 Mos.	18	Slate-picker	Caught in machinery	Right forearm fractured	O
21	Thomas	Chas Cook	12-5-11	Negro	3 Mos.	18	Door-boy	Run over by motor	Leg mashed between knee and ankle missing amputation necessary	O
22	Crystal	Mike Yaresch	12-7-11	Hungarian	10 Yrs.	40	Miner	Mine car	Fracture of right leg	I
23	Crane Creek	Everett Kasee	12-7-11	American	2 Yrs.	18	Irakman	Mine car	Left foot mashed	O
24	Crystal No. 1	Henry Belder	12-14-11	American	5 Yrs.	30	Miner	Fall of roof	Lacerated wound back of skull and injured leg	I
25	Crystal No. 1	Holand Dillard	12-18-11	Negro	1 Yr.	18	Trapper	Fall of slate	Toe of left foot cut off	I
26	Buckeye	R. E. Woods	12-18-11	American	10 Yrs.	40	Miner	Fall of slate	Fracture of right leg and scalp wounds	I
27	Smokeless	Adon Lator	12-23-11	Italian	10 Yrs.	50	Miner	Fall of coal	Broken thigh and body bruised	I
28	Casewell Creek	Charles W. Smith	1-9-12	Negro	20 Yrs.	45	Tunnelman	Fall of slate	Crushed about hips	I
29	Casewell Creek	Edward Carter	1-13-12	Negro	17 Yrs.	33	Miner	Fall of slate	Scalp wounds and contusion of left shoulder	I
30	Louisville No. 4	Houston Blevins	1-17-12	American	3 Yrs.	22	Miner	Fall of slate	Right leg broken below knee	I
31	Crane Creek	Wiley Lowman	1-19-12	American	1 Yr.	17	Pump-hand	Caught in machine	Skin and tissue torn from right side of body	I
32	Coaldale	Jack Pooley	1-23-12	Russian	4 Yrs.	46	Miner	Fall of slate	Right foot fractured and lacerated and scalp cut	I
33	South Buckeye	H. M. Schrader	1-29-12	American	3 Yrs.	23	Slateman	Fall of slate	Left leg broken	I
34	Louisville No. 1	J. F. Hurst	2-7-12	American	14 Yrs.	29	Miner	Fall of slate	Right foot severely injured and several toes almost severed	I
35	Mill Creek	G. C. Smith	2-17-12	American	1 Yr.	25	Laborer	Fall of coal and slate	Compound fracture of left leg and contusion of scalp	I
36	Weyanoke No. 1	Albert Lancaster	2-17-12	American	5 Yrs.	19	Motor-runner	Caught in machinery	Right hand mashed	I
37	Pawana No. 2	William Chernik	3-5-12	Pole	4 Yrs.	24	Miner	Fall of slate	Left hand injured and back and shoulders hurt	I
38	Casewell Creek	John H. Harman	3-11-12	American	10 Yrs.	50	Miner	Fall of slate	Right ankle and right shoulder injured	I
39	Booth Bowen	Robert Mitchell	3-21-12	Negro	15 Yrs.	35	Miner	Fall of slate	Two ribs fractured and contusion of side	I
40	Thomas No. 1	Elisha Holland	3-26-12	Negro	1 Yr.	45	Miner	Powder explosion	Burns about face, hands and legs	I
41	Thomas No. 1	W. H. Brown	3-26-12	Negro	2 Yrs.	16	Trapper	Powder explosion	Burned about neck and forehead	I
42	Thomas No. 1	John Kirby	3-26-12	Negro	10 Yrs.	50	Miner	Powder explosion	Burned about face, hands and body	I
43	Thomas No. 1	Jack Pannell	3-26-12	Negro	20 Yrs.	40	Miner	Powder explosion	Burned about face and hands	I
44	Thomas No. 1	Jack Winchester	3-26-12	Negro	10 Yrs.	30	Trackman	Powder explosion	Burned about face and hands	I
45	Thomas No. 1	Ed Davis	3-26-12	Negro	10 Yrs.	40	Miner	Powder explosion	Burned about face, hands and body	I
46	Thomas No. 1	Alex Williams	3-26-12	Negro	10 Yrs.	40	Miner	Powder explosion	Burned about face and hands	I
47	Thomas No. 1	Geo. Clark	3-26-12	Negro	1 Yr.	21	Door Boy	Powder explosion	Burned about face	I
48	Thomas No. 1	John Blinkey	3-26-12	Negro	15 Yrs.	35	Miner	Powder explosion	Burned about face and hands	I
49	Thomas No. 1	Warren Ford	3-26-12	Negro	1 Yr.	25	Miner	Powder explosion	Burned about face and hands	I
50	Thomas No. 1	Chas Graham	3-26-12	American	4 Yrs.	29	Driver	Powder explosion	Burned about face, hands and body	I
51	Thomas No. 1	Jas. Deering	3-26-12	Negro	5 Yrs.	29	Miner	Powder explosion	Hand burned	I
52	Thomas No. 1	Con. Prunty	3-26-12	Negro	2 Yrs.	21	Trackman	Powder explosion	Burned about face and hands	I
53	Thomas No. 1	Green Young	3-26-12	Negro	4 Yrs.	50	Miner	Powder explosion	Burned about face and hands	I
54	Thomas No. 1	Kyle Montgomery	3-26-12	American	2 Yrs.	25	Miner	Powder explosion	Burned about face, hands and body	I
55	Louisville No. 1	Freeland Lusk	4-3-12	American	20 Yrs.	33	Miner	Fall of sandstone	Contusion of back and spine	I

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON, INJURY	Date of Accident	Nationality	Ex- perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside
MERCER COUNTY—Con.										
56	Wyanoke	John R. Lovern	4-4-12	American	3 Mos.	17	Miner	Caught between car and rib	Right leg broken	1
57	Crystal No. 3	John Reese	5-28-12	Italian	5 Yrs.	45	Miner	Fall of slate	Head and chest bruised	1
58	Wenmah	K. D. Pardew	6-3-12	American	3 Yrs.	38	Car-dropper	Caught between car and timber	Arm broken	0
59	Spring	John Wallace	6-3-12	American	5 Yrs.	24	Miner	Fall of coal	Breast and abdomen mashed	1
60	Mill Creek	Charles Jones	6-14-12	Negro	10 Yrs.	44	Miner	Fall of coal and slate	Fracture of left leg	1
61	Caswell Creek	C. C. Newlander	6-20-12	American	40 Yrs.	42	Lo o. Eng.	Fall of slate	Breast and abdomen injured	1
62	Caswell Creek	Walter C. Cooper	6-24-12	American	6 Yrs.	27	Miner	Fall of slate	Left foot injured	1
McDOWELL COUNTY										
1	Jed	Rustus Baldwin	7-2-11	American	4 Yrs.	24	Mch. Runner	Foot run over by machine truck	Toes of right foot mashed	1
2	Page No. 3	William Baratts	7-3-11	Russian	1 Yr.	34	Miner	Fall of coal	Right arm fractured	1
3	U. S. & C. Co. East No. 9	Thos. Compie	7-3-11	German	5 Yrs.	30	Miner	Fall of coal	Lower jaw bone fractured	1
4	Helen	Sam Blanton	7-6-11	American	6 Yrs.	40	Miner	Fall of slate	Left shoulder dislocated	1
5	Upland	Geo. Delena	7-6-11	Italian	4 Yrs.	30	Miner	Fall of slate	Broken collar bone	1
6	Bottom Creek	William McMillin	7-7-11	Negro	2 Yrs.	21	Miner	Fall of slate	Compound fracture of leg below knee	1
7	Empire	Ben Feinster	7-8-11	Negro	1 Yr.	19	Tippelman	Run over by truck	Strained back	0
8	U. S. & C. Co. East No. 9	Frank Klayoski	7-8-11	Hungarian	2 Yrs.	21	Miner	Caught between car and coal	Simple fracture of leg above ankle	1
9	Shamokin	George France	7-10-11	Negro	2 Yrs.	23	Miner	Fall of slate	Right leg broken and left side injured	1
10	Davy Crockett	Robert Cowan	7-10-11	American	3 Yrs.	33	Miner	Fall of slate	Broken leg	1
11	Excellior Pocahontas	Thos. F. Parsons	7-12-11	American	6 Yrs.	23	Mch. Runner	Fall of slate	Left leg injured and amputation necessary	1
12	Cirrus No. 2	Joseph Use	7-13-11	American	7 Mos.	11	Car-catcher	Mine cars	Right leg fractured	1
13	King	Floyd Hubbard	7-13-11	Negro	5 Yrs.	35	Miner	Fall of slate	Fracture of cheek bone	1
14	Elk Ridge	Robert Powell	7-17-11	Negro	5 Yrs.	35	Miner	Fall of slate	Crushed through chest and abdomen and right ankle dislocated	1
15	Houston No. 2	Wash Gola	7-19-11	Russian	1 Yr.	20	Miner	Struck by mine cars	Crushed through chest and abdomen and right ankle dislocated	1
16	Empire	R. Baker	7-19-11	American	2 Yrs.	19	Tippelman	Caught in machinery	Bruised in dorsal and lumbar region of spine	0
17	Houston No. 1	Wash Stick	7-20-11	Russian	2 Yrs.	27	Miner	Fall of coal	Laceration of face and crushed at chest	1
18	Powhatan	Steve Varody	7-27-11	Hungarian	2 Yrs.	38	Miner	Blown-out shot	Neck, face and hands turned	1
19	Monitor	Henry Mitchell	7-28-11	American	9 Yrs.	29	Miner	Fall of coal	Mashed through hips	1
20	Va. Poca. No. 5	John Maska	7-28-11	Pole	5 Yrs.	27	Miner	Explosion of powder	Face and hands burned	1
21	Pulaski No. 2	Geo. Hurt	7-28-11	Negro	8 Yrs.	40	Miner	Fall of slate	Bruised arm and strained back	1
22	Empire	Ed Allen	7-31-11	Negro	2 Mos.	22	Driver	Caught between car and coal	Leg injured	1
23	Rolle	Ernest Tompkins	8-1-11	Negro	10 Yrs.	28	Driver	Mine cars	Left leg broken	1
24	Keystone	Robert Price	8-3-11	Negro	10 Yrs.	35	Miner	Fall of slate	Left foot cut across ankle	1
25	Mohawk	M. C. Cline	8-3-11	American	5 Yrs.	35	Miner	Fall of slate	One arm and leg broken	1
26	Crozer No. 2	Luther Smith	8-3-11	American	3 Mos.	15	Door boy	Caught between car and door	Fractured skull	1
27	Eureka	Wash Gregory	8-7-11	Negro	12 Yrs.	42	Miner	Fall of slate	Left leg and left arm bruised and cut	1
28	Pulaski No. 2	Granville Walker	8-7-11	Negro	20 Yrs.	58	Miner	Fall of coal	Fracture of ankle joint	1

29	Va.-Poca, No. 34.	John T. Holloway	8-7-11	American	19 Yrs.	46	Miner	Fall of slate	Right knee wrenched and head and shoulders bruised.	I
30	Va.-Poca, No. 34.	Charles Wensel	8-7-11	American	28 Yrs	46	Miner	Fall of slate	Fracture of right leg above ankle.	I
31	Roanoke	Giuseppe Zafino	8-8-11	Italian	1 Yr	36	Miner	Fall of slate	Fracture of three right ribs and internally injured.	I
32	U. S. C. & C. No. 10.	Andy Toto	8-8-11	Hungarian	6 Yrs.	25	Loader	Fall of coal	Collar bone broken.	I
33	McDowell	Wilmer Stone	8-9-11	Negro	3 Mos.	17	Brakeman	Caught by mine car	Right leg broken.	I
34	Keystone	Sam Cooper	8-10-11	American	3 Yrs	22	Electrician	Caught in machine	Foot severely injured	I
35	Tidewater	Dave Israel	8-10-11	Negro	1 Mo.	21	Miner	Fall of slate	Back broken, broken thigh and ankle and foot mashed.	O
36	Zenith	Martin Sweeney	8-12-11	American	6 Mos.	16	Flagman	Mine car wreck	Both legs broken at ankle and one rib broken.	I
37	Empire	R. P. Penn	8-16-11	Negro	5 Yrs	40	Miner	Struck by lump of coal	Fractured rib on the right side.	O
38	Turkey Gap	William Dillard	8-21-11	Negro	10 Yrs	35	Laborer	Caught between timber and car	Injured internally	O
39	Pulaski No. 2	Jack Alf	8-21-11	American	9 Yrs	25	Foreman (slate)	Fall of slate	Contused back	I
40	Pulaski No. 2	Dom Toffie	8-21-11	Italian	1 Yr	28	Slateman	Fall of slate	Fractured pelvis	I
41	Berwind No. 1	Garland Williams	8-22-11	American	3 Yrs	20	Brakeman	Caught between two motors	Injured knees	I
42	Gilliam	G. R. Schote	8-25-11	American	1 Yr	30	Slopman	Caught in drilling machine	Simple fracture of right leg	I
43	Gilliam	Mike Butner	8-25-11	Hungarian	2 Mos.	47	Miner	Fall of slate	Compound fracture of right leg	I
44	Crozer No. 1	Jim Nodge	8-29-11	Hungarian	4 Yrs	36	Miner	Fall of coal	Fractured pelvis and internal injury	I
45	Piney	Marshall Stokes	9-1-11	Negro	6 Mos.	20	Backhand	Fall of coal	Fracture of leg	I
46	Bottom Creek	Leslie Holyfield	9-1-11	American	6 Yrs	26	Miner	Fall of slate	Broken knee	O
47	Va.-Poca, No. 4	W. G. Edmonds	9-3-11	American	6 Yrs	23	Trackman	Jumped from motor	Both bones of right leg broken	I
48	Jeol	Jesse Jones	9-7-11	American	4 Yrs	26	Driver	Fall of slate	Broken leg	I
49	Eureka	Sam Monushuk	9-8-11	Russian	3 Yrs	30	Slateman	Premature explosion of shot	Severe contusion of right eye	I
50	Bottom Creek	Lawrence Avery	9-8-11	Negro	2 Yrs	17	Trapper	Run over by mine car	Bruised knee and broken and lacerated toes.	I
51	Virginia-Poca, No. 13	William D. Scott	9-11-11	American	2 Mos.	56	Driver	Fall of slate	Fracture of both bones of left hand cut, later amputated.	I
52	Tidewater	Elijah Buganavich	9-11-11	Russian	3 Yrs.	24	Slate-boss	Fall of slate	Leg broken above ankle.	I
53	Delta	Walter James	9-12-11	Negro	5 Yrs	24	Miner	Fall of coal	Several cuts on leg.	I
54	Rolle	Thos. McGivard	9-12-11	American	2 Yrs.	16	Brakeman	Run over by mine car	Leg fractured below knee, necessitating amputation	I
55	Arlington	James Hall	9-13-11	American	1 Yr	38	Pillar boss	Caught between mine car and prop.	Serious contusions of breast.	I
56	Upland	W. W. Wood	9-14-11	Negro	27 Yrs.	38	Laborer	Fall of slate	Arm broken, leg broken and chest mashed.	I
57	Gilliam	William Burdett	9-15-11	American	20 Yrs.	20	Driver	Fall of coal and slate	Fractured thigh	I
58	Houston No. 1	Andrew Moricz	9-16-11	Slav	2 Yrs.	26	Miner	Fall of coal	Serious injury to hips	I
59	Virginia-Poca, No. 1	Walter Lambert	9-16-11	American	3 Yrs.	17	Brakeman	Run over by car	Right leg broken, back arm and shoulder bruised	O
60	Empire	Willie Martin	9-18-11	American	2 Yrs.	22	Trackman	Jack fell upon injured	Hand fractured	I
61	Roanoke	Robert Pasley	9-19-11	Negro	1 Yr	21	Backhand	Fall of coal	Right leg fractured	I
62	Zenith No. 2	Alexander Marie	9-19-11	Italian	3 Yrs	24	Miner	Fall of slate	Big toe mashed and amputated	I
63	Bottom Creek	Billie Sabo	9-21-11	Hungarian	3 Mos.	24	Miner	Fall of slate	Lacerated and broken fingers	I
64	Houston No. 1	Pete Bracey	9-21-11	Slav	2 Yrs	32	Miner	Fall of coal	Leg broken	I
65	Rolle	James Price	9-21-11	Negro	15 Yrs.	32	Brakeman	Caught between mine cars.	Right leg broken above ankle	I
66	Delta	Gillian Hodges	9-22-11	American	1 Yr	21	Motorman	Mine car	Arm and collar bone broken	I
67	Jeol	Steve Garrole	9-23-11	Pole	7 Yrs	42	Miner	Fall of coal	Ankle sprained	I
68	Mohawk	Walter Preston	10-2-11	American	1 Yr	17	Brakeman	Run over by mine car	Large wound in left leg below knee	O
69	Roanoke	Guile Buzzi	10-5-11	Italian	1 Yr	18	Brakeman	Caught between mine cars	Severe contusions of left ankle	I

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
70	McDOWELL COU- Peetless.	NTY—Con. Joseph Allyn.	10-11-11	American	1 Yr.	16	Trapper	Wreck of mine cars.	Left arm dislocated and sprain of left knee joint.	1
71	Roanoke.	Dominio Forino.	10-11-11	Italian.	3 Yrs.	33	Miner	Fall of slate.	Laceration and contusion of left shoulder and left hand and knee hurt.	1
72	Indian Ridge.	Charles Kasnick.	10-12-11	Hungarian	5 Yrs.	28	Miner	Fall of slate.	Bruised and injured about hip and thigh.	1
73	Elk Ridge.	Thomas Tate.	10-12-11	Negro.	20 Yrs.	42	Drum-runner.	Run over by mine car.	Foot smashed and loss of one toe.	0
74	Shanokin.	Robert Hays.	10-12-11	Negro.	1 Yr.	26	Miner	Fall of slate.	Right leg broken.	1
75	Bottom Creek.	Tom Brown.	10-13-11	Negro.	7 Yrs.	22	Driver	Caught between mine cars.	Fractured bone of foot.	1
76	Keystone No. 2.	Ernest Cheer.	10-10-11	Italian.	4 Yrs.	18	Driver	Kicked by mule.	Lips and cheek-bone cut both inside and outside.	0
77	Virginia-Poca. No. 1.	Alex Wyatt.	10-16-11	American	20 Yrs.	42	Miner	Fall of slate.	Dislocation of left hip, bruised back, side and face.	1
78	Houston No. 1.	Garfield Williams.	10-20-11	Negro.	2 Yrs.	22	Laborer	Fall of slate.	Left foot injured.	1
79	Rolfe.	Lacy Ritter.	10-21-11	American	5 Yrs.	18	Nch. Runner.	Caught in machine.	Cut on left thigh and right side.	1
80	Arlington.	J. B. Hamblett.	10-24-11	American	1 Yr.	16	Doorboy.	Run over by motor wheel.	Hand severely lacerated.	1
81	W. Va.-Poca. No. 2.	Wm. Burchett.	10-27-11	American	2 Yrs.	24	Trackman.	Wreck of mine cars.	Leg broken.	1
82	Elk Ridge.	Lewis Hunter.	10-28-11	Negro.	4 Yrs.	21	Brakeman.	Fall of slate wrecking cab.	Injuries and bruises about hips and stomach and face scalded.	1
83	Greenbrier.	Lee Blackenship.	10-30-11	American	2 Yrs.	16	Trapper	Run over by mine car.	Right leg broken, 3rd femur of left broken and general injuries.	1
84	Tidewater.	Sam Vilzines.	10-31-11	Italian.	8 Yrs.	37	Miner	Fall of slate.	Back broken.	1
85	Empire.	James Cooper.	11- 3-11	Negro.	1 Yr.	23	Miner	Fall of slate.	Small bone broken in leg.	1
86	Greenbrier.	Walter Shaw.	11- 3-11	American	2 Yrs.	22	Miner	Fall of coal.	Hurt through back and hips, left hand and right foot injured.	1
87	Greenbrier.	Hicks Brown.	11- 4-11	Negro.	5 Yrs.	25	Miner	Fall of coal.	Right leg fractured above ankle.	1
88	Bottom Creek.	Diego Sorrianno.	11- 4-11	Italian.	1 Yr.	36	Miner	Explosion of powder.	Burned hands, neck and face.	1
89	King.	Mike Russo.	11- 7-11	Russo.	2 Nos.	20	Laborer	Set off small quantity of gas.	Face, back and hands burned.	1
90	Page No. 3.	Chas. Doris.	11- 7-11	Negro.	2 Yrs.	17	Brakeman.	Run over by motor.	Severe lacerations about head.	1
91	Welch.	J. E. Sword.	11- 7-11	American	3 Yrs.	32	Loader.	Fall of slate.	Scalp wound and sprained knee.	1
92	King.	Robert Horton.	11- 8-11	Negro.	4 Yrs.	24	Miner	Fall of slate.	Fractured leg.	1
93	Pulaski.	Peter August.	11- 8-11	Hungarian	4 Yrs.	31	Miner	Fall of slate.	Simple fracture of left leg.	1
94	Empire.	George Johnson.	11-10-11	Negro.	3 Nos.	20	Driver	Caught between car and slate.	Bruised leg and foot.	1
95	Big Sandy.	W. E. Haynes.	11-13-11	American	5 Yrs.	33	Older.	Caught between two mine cars.	Mashed and punctured wound of leg.	0
96	Bersind No. 2.	Joe Tupp.	11-13-11	Italian.	5 Yrs.	28	Miner	Explosion of shot.	Bruised and lamed about hands, face and arms.	1
97	B. to-in Creek.	Alexander Williams.	11-18-11	American	5 Yrs.	30	Ass. M. Eng'r	Gas Explosion.	Hands and face lamed.	1
98	B. to-in Creek.	Sam Bailey.	11-18-11	Negro.	4 Yrs.	30	Driver.	Gas explosion.	Collar bone fractured and contusion of brain.	1
99	B. to-in Creek.	Arzie Spencer.	11-18-11	Negro.	10 Yrs.	20	Driver.	Gas explosion.	Burned arm, leg and face, dislocated shoulder and broken collar bone.	1

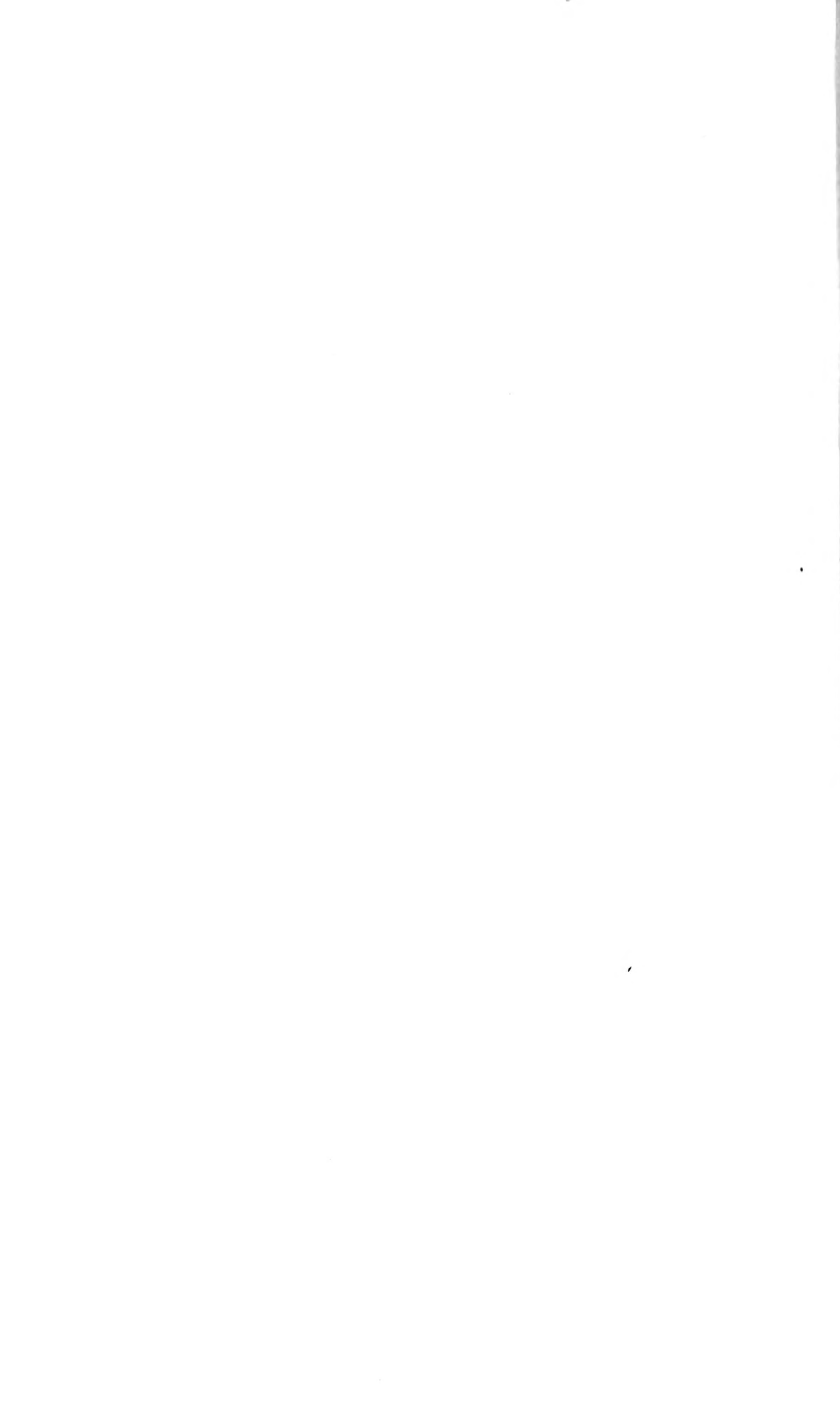
NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of
138	McDOWELL CO. N. Y.—Con.	U. S. & C. Co. East No. 9	Steve Injos	1 Mo.	22	Miner	Caught between car and coal rib	Fracture of crest of ilium of pelvis, contused shoulder and cuts.	1	
139	Eureka	Roma Baronec	1-30-12	Russian	5 Yrs.	30	Miner	Fall of slate	Contusion of scalp and severe sprain of spine.	1
140	Turkey Gap	John Carlisky	1-31-12	Russian	4 Yrs.	26	Miner	Mine cars.	Broken leg.	1
141	Indian Ridge	Joe Cato	2-7-12	Hungarian	2 Yrs.	27	Miner	Fall of coal	Bruised and contusion of chest	1
142	Jed	Frank Sybo	2-7-12	Hungarian	10 Yrs.	40	Miner	Hurt on cage while stepping off	Fracture of leg	1
143	Jed	Smith Walker	2-9-12	American	7 Yrs.	32	Laborer	Fall of slate	Left hand mashed and bruised	1
144	U. S. & C. Co. No. 4	John Volace	2-10-12	Slov.	6 Yrs.	23	Miner	Caught by mine car	Leg broken.	1
145	New River-Poca, No. 2	Tony Timex	2-12-12	Italian	11 Yrs.	31	Mch. Rumer	Injured by low part of roof	Serious abdominal injury	1
146	McDowell	John Thomas	2-14-12	American	2 Yrs.	20	Brakeman	Dragged by motor	Lost part of scalp and ear, right leg broken and minor injuries.	0
147	Dixon-Poca, South	Neal Daye	2-19-12	Negro	4 Yrs.	25	Mch. Helper	Fall of coal	Fracture of right leg below knee	1
148	Elk Ridge	Ira C. Toler	2-21-12	Negro	9 Mos.	45	St. Foreman	Fall of slate	Deep cut under arm and breast injured	1
149	Empire	Walter Craggett	2-21-12	Negro	10 Yrs.	29	Miner	Fall of slate	Left leg broken.	1
150	Pige No. 1	Ed. Wilson	2-23-12	American	4 Yrs.	29	Miner	Fall of slate	Chest badly mashed and ribs broken	1
151	Pulaski No. 2	Bruno Varona	2-24-12	Italian	2 Yrs.	41	Miner	Struck by lump of coal.	Bruised foot and sprained ankle	1
152	Tulewater	W. G. Harris	2-24-12	Negro	6 Yrs.	60	Miner	Fall of roof	Three ribs broken.	1
153	Arlington	John Kowatch	2-26-12	Hungarian	5 Yrs.	45	Miner	Fall of slate	Fracture of thigh and contusion of back	1
154	Keystone No. 1	Ed Taylor	2-27-12	Negro	20 Yrs.	42	Miner	Fall of slate and rock	Leg broken and face lacerated	1
155	Houston No. 1	Daniel Willey	2-28-12	Negro	10 Yrs.	39	Miner	Fall of slate	Left foot injured	1
156	Oregon No. 3	P. B. Wall	2-29-12	American	9 Yrs.	30	Mch. Rumer	Fall of slate	Abrasion of skin and strained muscles of back	1
157	Lynchburg	Wm. E. Wallace	2-29-12	American	15 Yrs.	40	Trackman	Fall of slate	One bone broken in right arm and left leg cut	1
158	Lick Branch	Frank Kulber	3-1-12	Pole	7 Yrs.	37	Miner	Fall of slate	Right arm broken	1
159	Zenith	Frank Stoeck	3-3-12	Italian	3 Yrs.	25	Miner	Fall of coal	Foot badly injured	1
160	King	Henry Kellom	3-6-12	American	13 Yrs.	36	Miner	Fall of slate	Compound fracture of right ankle	1
161	Zenith	Steve Popp	3-7-12	Hungarian	8 Yrs.	40	Miner	Fall of slate and rock	Both legs broken and chest severely injured	1
162	Bottom Creek	Lee Tucker	3-7-12	Negro	9 Yrs.	32	Miner	Mine car	Fracture of elbow	1
163	Crozer No. 2	Dave Wiley	3-8-12	Negro	3 Yrs.	41	Miner	Fall of coal	Body severely injured and two ribs broken	1
164	Virginia-Poca, No. 2	J. G. Gilbert	3-11-12	American	2 Yrs.	27	Motorman	Mine car	Hand mashed	1
165	Pulaski No. 2	Stanley Blakey	3-12-12	English	1 Yr.	15	Trapper	Run over by motor	Toes lacerated and one cut off	1
166	Empire	Charles Davenport	3-12-12	Negro	15 Yrs.	39	Miner	Fall of coal	Head, hip and right ankle bruised	1
167	Delta	Murry Sultawa	3-13-12	Russian	1 Yr.	24	Miner	Mine car	Leg broken	1
168	Virginia-Poca, No. 2	Carl Cheeks	3-15-12	American	2 Yrs.	16	Miner	Fell from mine car	Right leg broken and crushed	1
169	Houston No. 2	Mike Bohon	3-15-12	Austrian	3 Yrs.	30	Miner	Strauk by mine car	Two ribs broken	1
170	Bug Sandy	Artis Sigmon	3-15-12	American	3 Yrs.	21	Miner	Fall of slate.	Broken leg.	1

171 Elkhorn.	James Howard.	3-16-12	American.	20 Yrs.	40	Slateman.	Fall of slate.	Internal injuries.	1
172 Delta.	Herbert Sandus.	3-20-12	Negro.	1 Yr.	20	Trapper.	Caught between two mine cars.	Hips injured.	1
173 Tidewater.	John Huston.	3-21-12	Negro.	1 Yr.	20	Miner.	Fall of coal and slate.	Left leg broken above ankle.	1
174 Monitor.	Wilson Wingfield.	3-26-12	Negro.	4 Yrs.	18	Miner.	Fall of roof.	Lacerated eye and bruised hip.	1
175 Peerless.	Fletcher Carter.	3-27-12	Negro.	5 Yrs.	35	Trackman.	Explosion of dynamite.	Burned about hands and face.	1
176 Stone Bank.	Charles Rinkowash.	3-28-12	Hungarian.	7 Yrs.	45	Miner.	Fall of slate.	Both legs fractured.	1
177 Rolfe.	Joe Harsang.	3-30-12	Hungarian.	10 Yrs.	25	Miner.	Fall of slate.	Right leg broken below knee.	1
178 Oregon No. 3.	Arthur Gillinwaters.	3-30-12	American.	1 Yr.	20	Driver.	Caught by mine car.	Fractured leg.	1
179 Empire.	John Golock.	4-1-12	Hungarian.	5 Yrs.	29	Trackman.	Run over by mine car.	Left foot cut and bruised and scalp wounds.	1
180 Pulaski No. 2.	Thos. Briggs.	4-2-12	American.	1 Yr.	18	Brakeman.	Run over by mine car.	Thigh fractured and head, chest and face lacerated.	1
181 Houston No. 1.	Robert Hancock.	4-3-12	Negro.	4 Yrs.	28	Driver.	Run over by mine car.	Fracture of fibula of right leg.	1
182 Empire.	Pete Stewart.	4-6-12	Negro.	20 Yrs.	35	Miner.	Fall of slate and rock.	Back severely injured.	1
183 Bottom Creek.	Osborn Snow.	4-8-12	Negro.	15 Yrs.	37	Miner.	Fall of slate.	Leg broken above knee.	1
184 Page No. 3.	Oscar Mills.	4-9-12	American.	6 Yrs.	18	Laborer.	Caught between car and motor.	Fracture of leg.	1
185 Crozer No. 1.	Arthur Yates.	4-9-12	American.	5 Yrs.	30	Motorman.	Foot smashed bet. motor & wheel.	Amputation necessary.	1
186 King.	William Mills.	4-11-12	Negro.	4 Yrs.	21	Driver.	Run over by car.	Right leg broken.	1
187 Roanoke.	Ray Myers.	4-13-12	Negro.	12 Yrs.	32	Miner.	Fall of slate and rock.	Comminuted fracture of right thigh.	1
188 Upland.	Solomon Jackson.	4-13-12	Negro.	15 Yrs.	35	Miner.	Fall of slate and rock.	Broken ankle.	1
189 Bottom Creek.	R. S. Jackson.	4-16-12	American.	15 Yrs.	41	Foreman.	Fall of slate.	Bruised and fractured left arm.	1
190 Tidewater.	A. W. McKaver.	4-17-12	Negro.	5 Yrs.	35	Slateman.	Explosion of shot.	Arms and face lacerated.	1
191 Pulaski No. 2.	V. Turner.	4-17-12	American.	2 Yrs.	26	Brakeman.	Hand mangled under car.	Right hand injured and thumb cut off.	1
192 Premier No. 1.	J. L. Jenkins.	4-18-12	American.	3 Yrs.	30	Miner.	Fall of coal.	Broken leg.	1
193 Cherokee.	Henry Watkins.	4-19-12	Negro.	15 Yrs.	30	Miner.	Fall of slate.	Injured hips.	1
194 Roanoke.	Frank Puskoish.	4-20-12	Hungarian.	4 Yrs.	38	Miner.	Fall of slate.	Back and shoulder scraped and right knee lacerated and sprained.	1
195 Tidewater.	John Solire.	4-22-12	Hungarian.	3 Yrs.	22	Miner.	Fall of coal.	Leg broken.	1
196 New River-Poca. No. 3.	R. L. Dillon.	4-23-12	American.	1 Yr.	21	Brakeman.	Struck by flying coal.	Left arm fractured and slight laceration and contusion of forehead.	1
197 Gilliam.	Sam Conwell.	5-1-12	American.	3 Yrs.	23	Miner.	Fall of slate.	Fracture of both bones of left leg.	1
198 Stamokim.	William Stovall.	5-3-12	Negro.	6 Yrs.	30	Miner.	Fall of coal and slate.	Right foot mashed.	1
199 Keystone No. 1.	June Foster.	5-3-12	Negro.	2 Yrs.	25	Driver.	Run over by car.	Broken leg.	1
200 U. S. C. & C. Co. W. No. 9.	James Valentine.	5-3-12	American.	3 Yrs.	37	Car dropper.	Caught between mine cars.	Lacerated wound of left leg.	0
201 Elk Ridge.	John Karamis.	5-9-12	Greek.	4 Yrs.	45	Car-usher.	Caught between wheel and rail.	Right heel mashed and ankle sprained.	0
202 Delta.	George Johnson.	5-9-12	American.	3 Yrs.	17	Brakeman.	Mine car.	Right hand lacerated.	1
203 Carida.	David Robinson.	5-9-12	American.	1 Yr.	22	Mch. Helper.	Injured by machine.	Fractured skull.	1
204 Big Sandy.	Tom Floyd.	5-9-12	Negro.	6 Yrs.	32	Miner.	Fall of slate.	Broken ankle.	1
205 Pulaski No. 2.	Reese Trigg.	5-13-12	Negro.	5 Yrs.	35	Miner.	Fall of coal.	Compound fracture of left leg and simple fracture of thigh.	1
206 Tidewater.	John Tate.	5-14-12	Hungarian.	7 Yrs.	35	Miner.	Fall of coal.	Sprained back.	1
207 Pulaski No. 1.	Henry Johnson.	5-21-12	Negro.	2 Yrs.	22	Driver.	Explosion of powder.	Left hand, right ankle and face burned.	1
208 Geo. Flin toff.	Geo. Flin toff.	5-21-12	Negro.	2 Yrs.	26	Miner.	Explosion of powder.	Right hand, arm and face burned.	1
209 Pulaski No. 2.	B. Williams.	5-21-12	Negro.	3 Yrs.	27	Helper.	Foot caught under wheel.	Broken toe and bruised foot.	0
210 Cirrus.	Bud Donaldson.	5-21-12	American.	30 Yrs.	35	Miner.	Struck by flying coal.	Arm broken.	1
211 Page No. 2.	M. F. Stone.	5-23-12	American.	10 Yrs.	40	Miner.	Fall of slate.	Slight dislocation of spinal column.	1
212 Lynchburg.	John Lukach.	5-24-12	Hungarian.	25 Yrs.	62	Miner.	Fall of coal.	Broken collar bone and part of foot crushed.	1
213 Scorpion.	Gordon Barrett.	5-24-12	American.	5 Yrs.	20	Miner.	Fall of coal.	Back and hips injured.	1
214 Elk Ridge.	Herbert Johnson.	5-25-12	Negro.	6 Yrs.	25	Miner.	Fall of coal.	Simple fracture of left leg.	1

NON-FATAL ACCIDENTS FOR YEAR ENDING JUNE 30, 1912.—Continued.

No.	NAME OF MINE	NAME OF PERSON INJURY	Date of Accident	Nationality	Ex-perience	Age	Occupation	NATURE OF ACCIDENT	INJURY SUSTAINED	Inside or Outside of Mine
215	McDOWELL CO.	NTY— <i>Con.</i>								
215	Page	J. R. Sutcliffe	5-29-12	American	10 Yrs.	40	Stat. Engineer	Run over by motor	Crushed foot requiring amputation	0
216	Cirrus	Earliest Tagland	5-31-12	Negro	7 Yrs.	20	Driver	Fall of coal, rock and slate	Leg broken	1
217	Virginia-Isola, No. 5	Gusson Clouse	6-3-12	American	6 Yrs.	25	Mech. Runner	Fall of slate	Back severely injured	1
218	Page No. 2	J. H. Judge	6-5-12	Irish	20 Yrs.	50	Miner	Fall of slate	Broken leg	1
219	Elk Ridge	Genaro Marcus	6-6-12	Italian	5 Yrs.	25	Miner	Fall of slate	Back probably broken	1
220	Oregon No. 3	Walter Edwards	6-10-12	American	22 Days	32	Car-pusher	Foot caught between car and door	Mashed right foot	0
221	Heleena	Hobart Mann	6-11-12	American	3 Yrs.	17	Tripe-rider	Fell from mine car	Dislocation of right ankle	1
222	Crozer No. 2	Robert Dalton	6-14-12	Negro	3 Yrs.	17	Brakeman	Caught between car and motor	Hand mashed	1
223	Eureka	Tom Jones	6-17-12	Negro	2 Yrs.	35	Miner	Lost control of mine car	Lacerated wound of left cheek and lips and jaw bone fractured	1
224	Eureka	Philamont Strakur	6-21-12	Russian	4 Mos.	25	Miner	Fall of slate	Right leg broken and injuries along back near spinal column	1
225	King	Tom Amelia	6-21-12	Italian	10 Yrs.	40	Miner	Fall of slate	Compound fracture of right leg	1
226	Empire	George Mark	6-25-12	Italian	4 Yrs.	22	Miner	Fall of slate	Scalp wound, spine bruised and injuries to right leg	1
227	Cirrus No. 2	John Lessock	6-25-12	Slav	2 Yrs.	27	Slate-man	Fall of slate	Leg broken	1
LOGAN COUNTY										
1	Label No. 2	Oskey Nelson	11-8-11	American	1 Yr.	17	Tripe-rider	Hand caught by signal wire	Third finger of right hand cut off	1
2	U. S. C. & O. Co. No. 5	John Early	12-8-11	American	1 Yr.	33	Miner	Injured by mine car accident	Right leg broken above knee	1
3	U. S. C. & O. Co. No. 4	Fred War	12-29-11	American	3 Days	22	Brakeman	Turned ankle while working	Left ankle badly sprained	1
4	Rex	Harry Speers	12-27-11	American	7 Yrs.	21	Brakeman	Injured by mine car	Mashed through hips and pelvis	1
5	U. S. C. & O. Co. No. 2	Andy Ratliff	1-2-12	American	1 Yr.	30	Driver	Fell on hand	Fracture of radius of left arm	1
6	Draper	Arthur Kitchen	1-12-12	American	15 Yrs.	40	Miner	Caught in machine	Foot lacerated	1
7	U. S. C. & O. Co. No. 4	Aaron Repetti	1-22-12	Hungarian	6 Yrs.	41	Loader	Hit by lump of coal	Fracture of both bones of left leg near ankle joint	1
8	Wanda	Robert Deakins	2-1-12	American	4 Yrs.	32	Dumper	Hand caught between two cars	One finger crushed and one finger amputated	0
9	U. S. C. & O. Co. No. 3	John Sagety	2-5-12	Hungarian	3 Yrs.	19	Brakeman	Burned by electricity	Deep electric burn on thigh	1
10	Ea. Ing.	Maynard Totton	2-8-12	American	5 Yrs.	25	Mech. Runner	Fall of slate	Fracture of hip and pelvis	1
11	Ethel No. 1	Sam Munsey	2-13-12	American	3 Yrs.	25	Miner	Fall of coal	Head and shoulders bruised and slightly cut	1
12	Monitor	Mitchell Holmes	2-14-12	American	15 Yrs.	37	Miner	Fall of top coal	Left leg broken in two places between knee and ankle	1
13	U. S. C. & O. Co. No. 1	Paul Bolinski	2-15-12	Pole	1 Yr.	36	Loader	Struck by large lump of coal	Three toes on left foot mashed, requiring amputation	1
14	U. S. C. & O. Co. No. 2	Samuel E. Johnson	2-21-12	American	1 Mo.	38	Loader	Fall of coal	Left foot badly bruised and small bone fractured	1
15	Coal Valley	John Koelhus	3-16-12	Pole	7 Yrs.	31	Mch. Helper	Fall of slate	Wrist sprained and otherwise injured	1
16	Coal Valley	Thos. Baldwin	3-21-12	American	1 Yr.	35	Track-layer	Fall of slate	Broken arm	1
17	Wilson	Charles B. Roberts	4-2-12	American	5 Yrs.	31	Laborer	Run over by mine car	Leg crushed, necessitating amputation	1



DIRECTORY OF THE MINES

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
MARION COUNTY						
1	First	Four States Coal & Coke Co.	101	Annabelle Nos. 1-2	Shaft	Worthington
2	First	The Consolidation Coal Co.	102	Consolidation No. 67	Slope	Hutchinson
3	First	The Consolidation Coal Co.	103	Consolidation No. 84	Slope	Hutchinson
4	First	The Consolidation Coal Co.	104	Consolidation No. 28	Drift	Chiefton
5	First	The Consolidation Coal Co.	105	Consolidation No. 47	Drift	Middleton
6	First	The Consolidation Coal Co.	106	Consolidation No. 36	Drift	Middleton
7	First	The Consolidation Coal Co.	107	Consolidation No. 59	Drift	Middleton
8	First	Harry B. Coal Co.	108	Harry B. Nos. 2-3-4-5	Drift	Everson
9	First	Kilarn Coal & Coke Co.	109	Nos. 1-2-3	Drift	Monongah
10	First	The Consolidation Coal Co.	110	Consolidation No. 68	Drift	Everson
11	First	The Consolidation Coal Co.	111	Consolidation No. 63	Drift	Monongah
12	First	The Consolidation Coal Co.	112	Consolidation No. 34	Drift	Monongah
13	First	The Consolidation Coal Co.	113	Consolidation No. 43	Slope	Monongah
14	First	The Consolidation Coal Co.	114	Consolidation No. 22	Drift	Monongah
15	First	The Consolidation Coal Co.	115	Consolidation No. 53	Drift	Monongah
16	First	The Consolidation Coal Co.	116	Consolidation No. 56	Drift	Watson
17	First	The Consolidation Coal Co.	117	Consolidation No. 26	Drift	Watson
18	First	The Robson Coal Co.	118	James	Drift	Kingmont
19	First	The Va. & Pittsburg C. & C. Co.	119	Kingmont	Drift	Kingmont
20	First	The Phillips Coal Co.	120	Phillips	Drift	Bentons Ferry
21	First	Jamison Coal & Coke Co.	121	Jamison No. 7	Shaft	Barracksville
22	First	Jamison Coal & Coke Co.	122	Jamison No. 8	Shaft	Farmington
23	First	Jamison Coal & Coke Co.	123	Jamison No. 9	Shaft	Farmington
24	First	The Consolidation Coal Co.	124	Consolidation No. 38	Shaft	Barnsville
25	First	Dakota Coal & Coke Co.	125	Dakota No. 2	Shaft	Sparlan
26	First	New Central Coal Co.	126	Stafford	Shaft	Baxter
27	First	Federal Coal & Coke Co.	127	Federal No. 1	Shaft	Grant Town
28	First	Parker Run Coal & Coke Co.	128	Parker Run	Drift	Riversville
29	First	The Consolidation Coal Co.	129	Consolidation No. 24	Drift	Montana
30	First	Pittsburg Steam Coal Co.	130	Elizabeth	Drift	Montana
31	First	The Va. & Pittsburg C. & C. Co.	131	Morgan	Drift	Riversville
32	First	Catawba Coal Co.	132	Catawba	Drift	Catawba
33	First	The Consolidation Coal Co.	133	Consolidation No. 45	Drift	Scottdale
34	First	The Consolidation Coal Co.	134	Consolidation No. 82	Drift	Middleton
HARRISON COUNTY						
35	Second	Marion Gas Coal Co.	201	Bingamon	Drift	Enterprise
36	Second	The Consolidation Coal Co.	202	Consolidation No. 49	Slope	Enterprise
37	Second	The Consolidation Coal Co.	203	Consolidation No. 65	Drift	Shinnston
38	Second	The Consolidation Coal Co.	204	Consolidation No. 21	Drift	Gypsy
39	Second	The Consolidation Coal Co.	205	Consolidation No. 55	Drift	Meadowbrook
40	Second	The Consolidation Coal Co.	206	Consolidation No. 27	Drift	Glen Falls
41	Second	The Consolidation Coal Co.	207	Consolidation No. 54	Drift	Paywood
42	Second	The Consolidation Coal Co.	208	Consolidation No. 62	Drift	Adamston
43	Second	The Consolidation Coal Co.	209	Consolidation No. 32	Drift	Shinnston
44	Second	The Consolidation Coal Co.	210	Consolidation No. 35	Drift	Wilsonburg
45	Second	The Consolidation Coal Co.	211	Consolidation No. 29	Drift	Clarksburg
46	Second	The Consolidation Coal Co.	212	Consolidation No. 58	Drift	Clarksburg
47	Second	The Consolidation Coal Co.	213	Consolidation No. 46	Drift	Lewis
48	Second	Swager Coal Co.	214	Gilbert	Drift	Rosbud
49	Second	Daniel Coal Co.	215	Goeke No. 2	Drift	Lumberport
50	Second	Duquesne Coal Co.	216	Phoenix	Slope	Reynoldsville
51	Second	Orr Coal Mining Co.	217	Miller No. 1	Drift	Wilsonburg
52	Second	Madera-Hill-Clark Coal Co.	218	Randolph	Drift	Wilsonburg
53	Second	Madera-Hill-Clark Coal Co.	219	New Chieftain	Drift	Wilsonburg
54	Second	The Consolidation Coal Co.	220	Consolidation No. 23	Drift	Paywood
55	Second	The Consolidation Coal Co.	221	Consolidation No. 25	Drift	Clarksburg
56	Second	The Consolidation Coal Co.	222	Consolidation No. 33	Drift	Farmum
57	Second	The Consolidation Coal Co.	223	Consolidation No. 39	Drift	Lewis
58	Second	Richter Coal & Coke Co.	224	Richter	Drift	Lost Creek
59	Second	The Consolidation Coal Co.	225	Consolidation No. 40	Drift	Virot
60	Second	The Consolidation Coal Co.	226	Consolidation No. 42	Drift	Shinnston
61	Second	The Consolidation Coal Co.	227	Consolidation No. 76	Drift	Glen Falls
62	Second	The Consolidation Coal Co.	228	Consolidation No. 44	Drift	Interstate
63	Second	The Consolidation Coal Co.	229	Consolidation No. 48	Drift	Glen Falls
64	Second	The Consolidation Coal Co.	230	Consolidation No. 50	Drift	Adamston
65	Second	The Consolidation Coal Co.	231	Consolidation No. 51	Drift	Shinnston
66	Second	The Consolidation Coal Co.	232	Consolidation No. 52	Drift	Ocean Mine
67	Second	The Consolidation Coal Co.	233	Consolidation No. 60	Drift	Mt. Clare
68	Second	The Consolidation Coal Co.	234	Consolidation No. 66	Drift	Shinnston

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
E. F. Miller	P. M. Connor	Pittsburg	9—	Fan	319	1
K. D. Bailey	P. C. Vernon	Pittsburg	8—	Fan	89	2
K. D. Bailey	P. C. Vernon	Pittsburg	8—	Fan	30	3
Rush Miller	Fred C. Girod	Pittsburg	8—	Fan	94	4
Rush Miller	J. L. Miller	Pittsburg	8—	Fan	127	5
Rush Miller	J. O. Davis	Pittsburg	7— 6	Fan	107	6
Rush Miller	J. O. Davis	Pittsburg	7— 6	Fan	15	7
J. A. Clark	H. C. Saunders	Pittsburg	7— 4	Natural	33	8
C. E. Zeek	C. A. Maze	Pittsburg	7—	Fan	21	9
Rush Miller	George Bucy	Pittsburg	7— 6	Fan	106	10
P. J. McGraw	S. S. Davidson	Pittsburg	7— 8	Fan	161	11
P. J. McGraw	B. F. Freeman	Pittsburg	7— 10	Fan	56	12
T. R. Barber	T. E. Brown	Pittsburg	7— 8	Fan	162	13
C. E. Peddicord	Walter Brown	Pittsburg	7— 6	Fan	140	14
C. E. Peddicord	Walter Brown	Pittsburg	8—	Fan	135	15
H. B. Crane	J. E. Trickett	Pittsburg	7—	Fan	200	16
H. C. Ash	B. G. Ash	Pittsburg	7— 6	Fan	200	17
James Dennison	James Dennison	Pittsburg	7—	Furnace	16	18
R. M. Hite	John Brown & Wm. Jarrett	Pittsburg	9—	Fan	227	19
Jos. Phillips	Jos. Phillips	Pittsburg	8—	Fan	16	20
O. E. Hughes	M. E. Adams	Pittsburg	8—	Fan	200	21
G. H. Musgrave	Max E. Quenon	Pittsburg	8—	Fan	332	22
Geo. Morris	Jos. Green & Evan Griffith	Pittsburg	8—	Fan	165	23
J. J. Bremen	Hays Gaskill	Pittsburg	7— 6	Fan	184	24
E. B. Rowe	Homer Myers	Pittsburg	7— 8	Fan	55	25
Duncan Sinclair	Thos. Gleason	Pittsburg	8— 6	Fan	133	26
J. W. Devison	J. M. McKenna	Pittsburg	8—	Fan	319	27
J. H. Martin	W. F. Ash	Pittsburg	6— 6	Fan	57	28
H. M. Smith	Geo. Hamrick	Pittsburg	6— 8	Fan	123	29
Jos. R. Bailey	Sam Winnie	Pittsburg	7—	Natural	22	30
M. C. Hite	Charles La Rue	Pittsburg	9—	Fan	48	31
G. T. Rodheaver	Geo. T. Rodheaver	Pittsburg	9—	Natural	18	32
W. H. Hess	C. E. Swisher	Pittsburg	7— 8	Natural	55	33
Rush Miller		Pittsburg	7—	Natural	1	34
Jos. B. Weightman	J. S. Boydoah & John Dent	Pittsburg	8—	Fan	54	35
H. B. Ice	John K. Walters	Pittsburg	7— 10	Fan	148	36
J. H. Nuzum	Oliver Bush	Pittsburg	7— 3	Fan	55	37
A. V. Morgan	Wyatt Roush	Pittsburg	7— 7	Fan	162	38
Thos. Jarrett	C. D. Powell	Pittsburg	8— 6	Fan	76	39
Luke Murray	W. T. Ashcraft	Pittsburg	7— 6	Fan	50	40
D. C. Ice	John Nolan & Oliver Bush	Pittsburg	7— 2	Fan	40	41
C. E. Gaskill	Daniel Oldrid	Pittsburg	7— 2	Fan	37	42
Josiah Keely	E. Vincent	Pittsburg	7— 3	Fan	142	43
L. E. Dorsey	John T. Martin	Pittsburg	7—	Fan	72	44
A. W. Rapp	M. J. Rooney	Pittsburg	7— 4	Fan	62	45
A. W. Rapp	L. E. Henderson	Pittsburg	7— 6	Fan	48	46
L. C. Kerner		Pittsburg	5— 8	Fan	9	47
Stanley Swiger	J. C. Swiger	Pittsburg	8—	Furnace	14	48
A. A. Gray	A. A. Gray	Pittsburg	8—	Furnace	14	49
J. S. Howe	J. S. Howe	Pittsburg	6—	Fan	19	50
J. M. Orr	F. E. Dawson	Pittsburg	7—	Furnace	33	51
J. M. Hicks	W. H. Artis	Pittsburg	7—	Fan	117	52
J. M. Hicks	W. H. Artis	Pittsburg	7—	Fan	26	53
A. C. Ice	L. C. Dent & Walter Rowe	Pittsburg	6— 8	Fan	54	54
John C. Riggins	Thos. Pollock	Pittsburg	7—	Fan	135	55
P. J. McAndrews	M. A. Haley	Pittsburg	8—	Fan	46	56
L. C. Keener	W. B. Blacksmith	Pittsburg	6— 8	Fan	56	57
B. H. Monroe	Grant White	Red stone	6—	Fan	31	58
Bland Courtney	John Quinn	Pittsburg	8—	Fan	100	59
J. H. Bainbridge	C. L. Kinney	Pittsburg	7—	Fan	51	60
Luke Murray		Pittsburg	7—	Fan	1	61
P. B. Robinson	N. McMasters	Pittsburg	6— 6	Fan	18	62
Luke Murray	C. W. Reeves	Pittsburg	7— 6	Fan	40	63
C. E. Gaskill	David Wilkins	Pittsburg	7—	Fan	74	64
J. H. Nuzum	Lou Lewis	Pittsburg	7— 8	Fan	79	65
D. A. Reed	F. H. Brooks	Pittsburg	7— 6	Fan	83	66
Thos. Smith	Jos. M. Matheny	Pittsburg	7—	Natural	45	67
C. H. Higginbotham	A. K. Parsons	Pittsburg	7— 8	Fan	64	68

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
HARRISON COUNTY—Con.						
69	Second	The Consolidation Coal Co.	235	Consolidation No. 64.	Drift	Interstate
70	Second	Va. & Maryland Coal Corp.	236	Willard Nos. 1-2	Drift	Adamston
71	Second	Hutchinson Coal Co.	237	McCandlish	Drift	Meadowbrook
72	Second	Corona Coal & Coke Co.	238	Harold	Drift	Clarksburg
73	Second	Central Fairmont Coal Co.	239	Snake Hill	Drift	Clarksburg
74	Second	Vincent Coal Co.	240	Grasselli	Drift	Clarksburg
75	Second	Haywood Coal Mining Co.	241	Monroe	Drift	Shinuston
76	Second	Hutchinson Coal Co.	242	Erie	Drift	Hepzibah
77	Second	Hutchinson Coal Co.	243	Delta	Slope	Reynoldsville
78	Second	Hutchinson Coal Co.	244	Hutchinson	Drift	Mt. Clare
79	Second	Harrison County Coal Co.	245	Overholt	Slope	Hepzibah
80	Second	Lambert Run Coal Co.	246	Clauson	Drift	Meadowbrook
81	Second	Hero Coal & Coke Co.	247	Hero	Drift	Lumberport
82	Second	Blue Ridge Coal Co.	248	Thompson	Drift	Lumberport
83	Second	Rosebud Fuel Co.	249	Rosebud No. 1	Drift	Rosebud
84	Second	Rosebud Fuel Co.	250	Rosebud No. 2	Drift	Rosebud
85	Second	National Coal Co.	251	National	Drift	Dola
86	Second	Fayette Coal Co.	252	Fayette	Drift	Dola
87	Second	The Monongah Fuel Co.	253	Gallihue	Drift	Monongah
88	Second	Short Line Coal Co.	254	Girard	Drift	Dola
89	Second	Fairmont & Baltimore C. & C. Co.	255	Fairmore	Drift	Adamston
90	Second	Madeira-Hill-Clark Coal Co.	256	Goff	Drift	Wilsonburg
91	Second	Madeira-Hill-Clark Coal Co.	257	Waldo	Drift	Wilsonburg
92	Second	Hutchinson Coal Co.	258	York	Drift	Reynoldsville
93	Second	O'Gara Coal Mining Co.	259	O'Gara	Slope	Reynoldsville
94	Second	Harry B. Coal & Coke Co.	260	Pitcairn	Drift	Clarksburg
95	Second	Marshall Coal Co.	261	Marshall	Drift	Mt. Clare
96	Second	Daniel Coal Co.	262	Gocke No. 1	Drift	Mt. Clare
97	Second	Clarksburg Gas Coal Co.	263	McWhorter	Drift	McWhorter
98	Second	Byron Coal Co.	264	Althca	Drift	Mt. Clare
99	Second	Hygrade Coal Co.	265	Page	Drift	McWhorter
100	Second	Bernard Coal Co.	266	Burk	Drift	Clarksburg
LEWIS COUNTY						
101	Second	Kroker Gas Coal Co.	267	Polar	Drift	McWhorter
FISHER COUNTY						
102	Second	Red Rock Fuel Co.	268	Red Rock No. 1	Drift	Red Rock
103	Second	Newcomer Coal Co.	269	Newcomer	Drift	Teter
104	Second	Buckhannon River Coal & Coke Co.	270	Florence	Drift	Adrian
NICHOLAS COUNTY						
105	Second	Pardee & Curtin Lumber Co.	271	Panther Creek	Slope	Curtin
106	Second	Pardee & Curtin Lumber Co.	272	Hominy	Drift	Curtin
107	Second	The Saxman Coal & Coke Co.	273	Saxman Nos. 1-2	Drift	Saxman
108	Second	The Saxman Coal & Coke Co.	274	Saxman No. 3	Drift	Saxman
109	Seventh	Greendale Colliery Co.	743	Greendale	Drift	Vaughan
GREENBRIER COUNTY						
110	Second	Elk Lick Coal Co.	275	Spruce Knob	Drift	Richwood
MONONGALIA COUNTY						
111	Third	The Great Scott Coal & Coke Co.	301	Great Scott	Drift	Morgantown
112	Third	Antler Coal Co.	302	Grant	Drift	Round Bottom
113	Third	The Consolidation Coal Co.	303	Consolidation No. 30	Drift	Beechwood
114	Third	Pittsburg Steam Coal Co.	304	Opekiska	Drift	Opekiska
115	Third	Elkins Coal & Coke Co.	305	Saberton	Drift	Morgantown
116	Third	Elkins Coal & Coke Co.	306	Richard No. 1	Drift	Morgantown
117	Third	Elkins Coal & Coke Co.	307	Elkins No. 3	Drift	Morgantown
PRESTON COUNTY						
118	Third	Elkins Coal & Coke Co.	308	Brentz No. 2	Drift	Brentz
119	Third	Elkins Coal & Coke Co.	309	Masontown	Drift	Masontown
120	Third	Preston County Coke Co.	310	Cascade Nos. 1-2-3	Drift	Cascade
121	Third	Elkins Coal & Coke Co.	311	Kingwood Nos. 1-2-4	Drift	Kingwood
122	Third	Irona Coal Co.	312	Irona No. 2	Drift	Kingwood
123	Third	Borgman Coal Co.	313	Borgman No. 1	Drift	Tunnelton
124	Third	Kingwood Coal Co.	314	Howesville	Drift	Howesville
125	Third	Atlantic Coal & Coke Co.	315	Atlantic	Drift	Tunnelton
126	Third	S. H. Jordan	316	Corinth	Drift	Corinth

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
P. B. Robinson	I. L. Thomas	Pittsburg	7—	Fan	72	69
A. Lysle White	T. J. Westmoreland	Pittsburg	8—	Fan	159	70
Jno. Reuter	Fred Weise	Pittsburg	7— 6	Fan	114	71
Ed. Clingan	Thomas Horton	Pittsburg	8—	Fan	78	72
Fred Howard	D. M. Harr	Pittsburg	9—	Furnace	35	73
V. E. Goecke	J. J. Malloy	Pittsburg	8—	Furnace	51	74
George H. Wisser	Isaac Martin	Pittsburg	9—	Fan	64	75
Jno. Dailey	Eli Morris	Pittsburg	7— 6	Fan	116	76
C. D. M. Kramer	C. D. M. Kramer	Pittsburg	6—	Fan	36	77
W. G. H. Crawford	Ward Malone	Pittsburg	7— 6	Fan	118	78
George Austin	Tony Starr	Pittsburg	9—	Fan	52	79
Dorsey Pople	W. Ashcraft	Pittsburg	7—	Fan	42	80
Harry Hough	Harry Hough	Pittsburg	9—	Fan	25	81
Willis Sandridge	Willis Sandridge	Pittsburg	8—	Fan	9	82
R. E. Garrett	James Dennison	Pittsburg	8— 8	Fan	24	83
R. E. Garrett	James Dennison	Pittsburg	8— 8	Fan	59	84
R. A. Brown	Brooks Patton	Pittsburg	5— 6	Furnace	31	85
B. T. Greaves	Lock Vincent	Pittsburg	6— 4	Fan	44	86
David Victor	John Prunty	Pittsburg	7— 3	Furnace	29	87
Thos. Graham	J. M. Stires	Pittsburg	8—	Fan	38	88
A. Lysle White	Cleo Monk	Pittsburg	6—	Fan & Furn.	72	89
J. M. Hicks	O. J. Fowler	Pittsburg	8—	Fan	61	90
J. M. Hicks	A. G. Coburn	Pittsburg	8—	Fan	44	91
Walter Miller	Walter Miller	Pittsburg	7—	Fan	12	92
M. Mannix	James Cummings	Pittsburg	6—	Fan	91	93
J. A. Clark, Jr.	Milton Coburn	Pittsburg	7—	Fan	116	94
J. A. Jenkins	William Gantz	Pittsburg	8—	Fan	144	95
V. E. Goecke	H. S. Huber	Pittsburg	8—	Natural	10	96
J. J. Sharfnecker	J. J. Sharfnecker	Redstone	6—	Fan	14	97
Paul P. Cannon	W. L. Price	Pittsburg	8—	Fan	30	98
Marshall Limer	Marshall Limer	Redstone	6— 6	Furnace	19	99
P. J. Donnelly	P. J. Donnelly	Pittsburg	7—	Furnace	13	100
C. F. Limer	C. F. Limer	Redstone	6—	Fan	52	101
R. E. Tarleton	Mike Fahey	Redstone	4—	Fan	50	102
S. F. Weber	S. F. Weber	Redstone	6—	Furnace	29	103
I. J. Humphries	Wade Corley	Up. Fr'pt.	5—	Fan	23	104
Charles B. Mayo	Jos. Boggs	Sewell	4—	Furnace	8	105
Chas. B. Mayo	A. W. Smith	Sewell	2— 2	Furnace	3	106
Geo. R. Saxman	M. F. Allenbaugh	Sewell	3— 6	Fan	65	107
Goe. R. Saxman	E. S. Buzzard	Sewell	3— 6	Furnace	14	108
J. E. Griffith	Newt. Elkins	Coalburg	3— 4	Fan	26	109
Harry P. Jones	Harry P. Jones	Sewell	4—	Fan	46	110
A. G. Tate	A. G. Tate	Pittsburg	9—	Natural	6	111
T. W. Arnett	Charles Grandy	Pittsburg	8—	Furnace	30	112
H. S. Toothman	C. H. Johnson	Pittsburg	6— 6	Natural	57	113
J. R. Bailey	Samuel Whinnie	Pittsburg	7—	Natural	21	114
J. B. Hanford	Floyd Barnard	Pittsburg	8—	Fan	115	115
J. B. Hanford	C. T. Barnard	Up. Fr'pt.	4—	Fan	106	116
J. B. Hanford	John Hall	Up. Fr'pt.	4—	Fan	15	117
J. B. Hanford	Joseph Hanford	Up. Fr'pt.	4—	Fan	104	118
J. B. Hanford	Albert Spencer	Up. Freeport	4—	Fan	64	119
Everhart Bierer	T. T. Haney	Up. Freeport	4— 2	Fan	99	120
J. B. Hanford	J. B. Bowermaster	Up. Freeport	4—	Fan	61	121
David J. Williams	Edward Jones	Up. Freeport	4—	Fan	45	122
F. W. Borgman	F. W. Borgman	Up. Freeport	4— 8	Fan	32	123
Isaac Conn	C. W. Martin	Up. Freeport	4— 6	Furnace	55	124
William Patterson	B. B. Plum	Up. Freeport	4— 4	Fan	125	
S. H. Jordan	Homer Koontz	Up. Freeport	4—	Fan	32	126

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
PRESTON COUNTY—Con.						
127	Third	Merchants Coal Co.	317	Tunnelton	Drift	Tunnelton
128	Third	Gorman Coal & Coke Co.	318	Gorman No. 2	Drift	Austen
129	Third	The Austen Coal & Coke Co.	319	Austen No. 1	Drift	Austen
130	Third	The Austen Coal & Coke Co.	320	Austen No. 3	Drift	Austen
131	Third	Hite Coal & Coke Co.	321	Dixie	Drift	Hiorra
132	Third	Hiorra Coke Co.	322	Vulcan	Drift	Hiorra
133	Third	Hamilton Coal & Coke Co.	323	Newburg Shaft	Shaft	Newburg
TAYLOR COUNTY						
134	Third	Winona Coal & Coke Co.	324	Winona	Drift	Grafton
135	Third	McGraw Coal Co.	325	New York	Drift	Simpson
136	Third	Grafton Coal & Coke Co.	326	Sand Lick	Drift	Grafton, R.F.D. 6
137	Third	Maryland Coal Co. of W. Va.	327	Wendel Nos. 1-2-3-5	Drift	Grafton
138	Third	T. B. Davis Coal Co.	328	T. B. Davis	Drift	Flemington
139	Third	Pittsvein Coal Co.	329	Farmington No. 4	Drift	Flemington
140	Third	Rosemont Coal Co.	330	Rosemont	Drift	Tryconnell
141	Third	Harrison Coal Co.	331	Harrison	Drift	Tryconnell
142	Third	Sterling Coal Co.	332	Cecil	Drift	Cecil
143	Third	Sunnyside Coal Co.	333	Sunnyside	Drift	Independence
BARBOUR COUNTY						
144	Third	Laurel Creek Coal Co.	334	Laurel Creek	Drift	Arden
145	Third	Fygarts River Coal Co.	335	Arden	Drift	Arden
146	Third	Midland Coal & Coke Co.	336	Midland	Shaft	Boylan
147	Third	The Consolidation Coal Co.	337	Consolidation No. 37	Drift	Berryburg
148	Third	Meriden Coal Mining Co.	338	Meriden Nos. 1-2-3-4	Drift	Meriden
149	Third	Grafton Fuel Co.	339	Lillian Nos. 1-2	Drift	Lillian
150	Third	The Century Coal Co. of W. Va.	340	Century Nos. 1-2	Shaft	Century
151	Third	Gage Coal & Coke Co.	341	Sara	Drift	Junior
152	Third	Davis Colliery Co.	342	Junior No. 4	Drift	Junior
153	Third	Humphreys Coal Co.	343	Humphreys	Drift	Phillipi
154	Third	Luella Coal & Coke Co.	344	Adam	Drift	Phillipi
155	Third	Luella Coal & Coke Co.	345	Luella	Drift	Arden
156	Third	Davis Coal & Coke Co.	346	Dartmouth No. 4	Drift	Weaver
157	Fourth	Davis Coal & Coke Co.	401	Weaver No. 3	Drift	Weaver
RANDOLPH COUNTY.						
158	Fourth	Davis Coal & Coke Co.	402	Weaver No. 2	Drift	Weaver
159	Fourth	Davis Coal & Coke Co.	403	Weaver No. 1	Drift	Weaver
160	Fourth	Davis Colliery Co.	404	Harding No. 3	Drift	Harding
161	Fourth	Davis Colliery Co.	405	Sivad No. 5	Drift	Harding
162	Fourth	Davis Colliery Co.	406	Sivad No. 2	Drift	Harding
163	Fourth	Davis Colliery Co.	407	Coalton No. 1	Drift	Coalton
164	Fourth	W. H. Green	408	Leroy No. 1	Drift	Coalton
165	Fourth	Brady Coal Co.	409	Klondike	Drift	Mabie
166	Fourth	J. H. Jenkins Coal & Coke Co.	410	Jenkins No. 1	Drift	Mabie
167	Fourth	W. Va. Pulp & Paper Co.	411	Hopkins No. 1	Drift	Cass
168	Fourth	Rich Mountain Coal Co.	412	Beech Run	Drift	Hartridge
169	Fourth	Rich Mountain Coal Co.	413	Hartridge	Drift	Hartridge
TUCKER COUNTY.						
170	Fourth	Cumberland Coal Co.	414	Douglas No. 5	Drift	Albert
171	Fourth	Cumberland Coal Co.	415	Douglas No. 1	Drift	Albert
172	Fourth	Cumberland Coal Co.	416	Douglas No. 2	Drift	Albert
173	Fourth	Davis Coal & Coke Co.	417	Coketon No. 37	Drift	Coketon
174	Fourth	Davis Coal & Coke Co.	418	Coketon No. 36	Drift	Coketon
175	Fourth	Davis Coal & Coke Co.	419	Francis No. 41	Slope	Thomas
176	Fourth	Davis Coal & Coke Co.	420	Coketon No. 26	Drift	Thomas
177	Fourth	Davis Coal & Coke Co.	421	Coketon No. 24	Drift	Thomas
178	Fourth	Davis Coal & Coke Co.	422	Benlush No. 38	Drift	Benlush
179	Fourth	Davis Coal & Coke Co.	423	Thomas No. 34	Shaft	Thomas
180	Fourth	Davis Coal & Coke Co.	424	Thomas No. 23	Drift	Thomas
181	Fourth	Davis Coal & Coke Co.	425	Pendleton Run	Drift	Thomas
182	Fourth	Davis Coal & Coke Co.	426	Thomas No. 25	Drift	Thomas
183	Fourth	Davis Coal & Coke Co.	427	Pierce No. 39	Shaft	Pierce
184	Fourth	Davis Coal & Coke Co.	428	Pierce No. 40	Shaft	Pierce
185	Fourth	Gatzmer Coal & Coke Co.	429	Gatzmer	Drift	Gatzmer
186	Fourth	Beacon Coal & Coke Co.	430	Beacon	Drift	Davis
187	Fourth	Davis Coal & Coke Co.	431	Thomas No. 28	Drift	Thomas

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
Thos. Stiff	David Jack	Up. Freeport	5—	Fan	193	127
Thos. Murphy	B. F. Williams	Up. Freeport	4— 6	Fan	50	128
F. W. Horschler	Ed. Whitaker	Up. Freeport	4— 6	Fan	100	129
F. W. Horschler	John Cook	Up. Freeport	4— 6	Fan	33	130
M. C. Hite	Crawford Temple	Up. Freeport	4— 6	Furnace	20	131
Goe. L. Humphries	Frank Dehl	Up. Freeport	4— 6	Fan	64	132
L. C. Stevenson	John Humphreys	Lo. Kit'g	5—	Fan	52	133
F. S. Tarr	J. B. Coburn	Lo. Freeport	4— 4	Fan	13	134
James Blair	Charles Wilhelm	Pittsburg	7—	Fan	45	135
Ed. Fahey	John P. McGraw	Pittsburg	7— 6	Furnace	45	136
E. R. Clayton	W. J. Keefe	Pittsburg	6—	Fan	157	157
W. B. Wolfe	Wm. Draner	Pittsburg	7—	Fan	38	138
Geo. S. Brackett	G. R. W. Johnson	Pittsburg	7— 6	Fan	93	139
Jas. S. Starford	W. Starford	Pittsburg	8—	Fan	174	140
H. G. Smith	David Smith	Pittsburg	7—	Fan	32	141
J. C. Lewis	S. H. Wilson	Up. Freeport	5—	Furnace	22	142
L. B. Brydon	Ira Hoffman	Up. Freeport	4—	Fan	26	143
W. S. Brydon	Ira Hoffman	Up. Freeport	6—	Furnace	14	144
Chas. Cook	George Garian	Up. Freeport	5—10	Fan	27	145
P. D. Costello	P. D. Costello	Up. Freeport	5— 3	Fan	7	146
W. W. Furguson	Lee Cuttrill	Pittsburg	7—	Fan	153	147
Lee J. Sanbridge	H. D. Hurschman	Up. Freeport	6—	Fan	55	148
W. S. Brydon	Thos. Jones	Up. Freeport	6—2	Fan	28	149
John Phillips	Wm. Watkeys	Redstone	5— 6	Fan	249	150
H. C. Haskins	H. C. Haskins	Up. Freeport	5—	Fan	30	151
A. N. Humphrey	William Lee	Up. Freeport	5—	Fan	35	152
A. E. Shannon	John Swick	Up. Freeport	5—	Fan	26	153
Herbert Crawford	J. H. Robinson	Up. Freeport	7—	Furnace	9	154
Herbert Crawford	J. H. Robinson	Up. Freeport	6—	Furnace	34	155
W. W. Brewer	J. E. Ott	Lo. Kittanning	5—	Fan	47	156
W. W. Brewer	Jas. Colerly	Lo. Kitt'ng	5—	Fan	65	157
W. W. Brewer	J. H. Davis	Lo. Kitt'ng	7—	Fan	128	158
W. W. Brewer	Ora Shoma	Lo. Kitt'ng	7—	Fan	106	159
P. J. Stanton	Leslie Wilmuth	Lo. Kitt'ng	6—	Fan	88	160
Robt. Pollock	Conwell Booth	Lo. Kitt'ng	6—	Furnace	10	161
Robt. Pollock	Robt. Pollock	Lo. Kitt'ng	7—	Furnace	40	162
Jos. Hoyleman	Wm. F. Reilly	Lo. Kitt'ng	6— 6	Fan	132	163
W. H. Green	W. H. Green	Lo. Kitt'ng	8— 6	Furnace	10	164
A. P. Brady	John Condry	Lo. Kitt'ng	8— 6	Furnace	50	165
D. L. Coulter	D. L. Coulter	Lo. Kitt'ng	8— 9	Furnace	40	166
E. P. Shaffer	Ed. Seamons	Sewel	5—	Furnace	17	167
H. F. Loftus	Harley Davis	Sewel	2— 8	Furnace	22	168
E. P. McOlvin	M. B. Kittle	Beckley	3—	Furnace	10	169
J. B. Jenkins	E. E. McIntyre	Lo. Kitt'ng	10—	Fan	56	170
J. B. Jenkins	A. I. Jenkins	Lo. Kitt'ng	11—	Fan	157	171
J. B. Jenkins	Dick Jenkins	Lo. Kitt'ng	11—	Fan	76	172
P. J. Brennan	E. J. Brennan	Lo. Kitt'ng	5—	Fan	66	173
P. J. Brennan	William Hale	Lo. Kitt'ng	3— 6	Fan	169	174
P. J. Brennan	Alex Waddell	Lo. Kitt'ng	3— 6	Fan	34	175
P. J. Brennan	J. T. Foreman	Up. Freeport	5—	Fan	40	176
P. J. Brennan	J. T. Foreman	Up. Freeport	6—	Fan	64	177
M. L. Garvey	Thomas Fleming	Lo. Kitt'ng	6—	Fan	137	178
M. L. Garvey	J. A. Lake	Lo. Kitt'ng	5—	Fan	76	179
M. L. Garvey	J. J. Garvey	Up. Freeport	6—	Fan	137	180
M. L. Garvey	J. J. Garvey	Up. Freeport	6—	Fan	112	181
M. L. Garvey	W. B. Riggelman	Up. Freeport	5—	Fan	90	182
Chas. Connor	Edd. Williams	Lo. Kitt'ng	5— 6	Fan	111	183
Chas. Connor	A. I. Jenkins	Lo. Kitt'ng	6—	Fan	114	184
		Lo. Kitt'ng	7— 6	Furnace	185	
		Lo. Kitt'ng	7—	Fan	186	
M. L. Garvey	W. B. Riggelman	Up. Freeport	5—	Fan	12	187

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
GRANT COUNTY						
188	Fourth	Davis Coal & Coke Co.	432	Henry No. 22	Shaft	Henry
189	Fourth	Davis Coal & Coke Co.	433	Henry No. 33	Shaft	Henry
190	Fourth	Buffalo Creek Cumberland Coal Co.	434	Buffalo Creek No. 1	Drift	Bayard
MINERAL COUNTY.						
191	Fourth	Gleason Coal & Coke Co.	435	Gleason	Drift	Up. Potomac
192	Fourth	Hamill Coal & Coke Co.	436	Smith	Drift	Blaine
193	Fourth	Western Maryland Coal Co.	437	Wabash Nos. 1-2-3-4	Drift	Blaine
194	Fourth	Albans Creek Coal & Coke Co.	438	Oakmont No. 1	Drift	Oakmont
195	Fourth	Big Vein Coal Mining Co.	439	Bakerstown	Drift	Shaw
196	Fourth	Mastellar Coal Co.	440	Hampshire No. 1	Drift	Hampshire
197	Fourth	Mastellar Coal Co.	441	Hampshire No. 2	Drift	Beryl
198	Fourth	Mastellar Coal Co.	442	Hampshire Six Foot	Drift	Hampshire
199	Fourth	Mastellar Coal Co.	443	New Creek	Drift	Beryl
200	Fourth	Davis Coal & Coke Co.	444	Kittanning No. 14	Drift	Elk Garden
201	Fourth	Donnan Coal Co.	445	Black Diamond	Drift	Emoryville
202	Fourth	Davis Coal & Coke Co.	446	Elk Garden No. 6	Drift	Elk Garden
203	Fourth	Davis Coal & Coke Co.	447	Elk Garden No. 5	Drift	Elk Garden
204	Fourth	Davis Coal & Coke Co.	448	Tyson No. 10	Drift	Elk Garden
205	Fourth	Davis Coal & Coke Co.	449	Ott No. 20	Drift	Elk Garden
206	Fourth	Davis Coal & Coke Co.	450	Montgomery Run No. 19	Drift	Beryl
207	Fourth	Davis Coal & Coke Co.	451	Hampshire No. 51	Drift	Beryl
208	Fourth	Davis Coal & Coke Co.	452	Hampshire No. 50	Drift	Beryl
BROOKE COUNTY.						
209	Fifth	W. Va.-Pittsburg Coal Co.	501	Locust Grove No. 1	Drift	Collier
210	Fifth	W. Va.-Pittsburg Coal Co.	502	Number Three	Drift	Wellsburg
211	Fifth	W. Va.-Pittsburg Coal Co.	503	Number Four	Drift	Wellsburg
212	Fifth	Beech Bottom Coal Co.	405	Beech Bottom No. 1	Drift	Wellsburg
213	Fifth	LaBelle Iron Works	505	LaBelle Shaft	Shaft	Steuenville, O.
BRAXTON COUNTY.						
214	Fifth	Davis Colliery Co.	506	Bower No. 10	Drift	Bower
215	Fifth	Davis Colliery Co.	507	Copen No. 11	Drift	Copen
216	Fifth	Braxton Coal & Coke Co.	508	Braxton	Drift	Braxton
217	Fifth	Copen Creek Coal Co.	509	Vanwith	Drift	Gilmer
218	Fifth	The Elliot Split Coal Co.	510	York	Drift	Clay
CLAY COUNTY.						
219	Fifth	Clay Coal Co.	511	Bradley White Ash	Drift	Barren Creek
220	Fifth	Elk Manor Coal Co.	512	Dorfee	Drift	Dorfee
221	Fifth	Queen Shoals Coal Co.	513	Burnzweil	Drift	Queen Shoals
222	Fifth	Elk River Coal & Lumber Co.	514	Rich Run	Drift	Widen
MARSHALL COUNTY						
223	Fifth	Hitchman Coal Co.	515	Hitchman	Slope	Benwood
224	Fifth	Mound Coal Co.	516	Mound	Shaft	Moundsville
225	Fifth	Ben Franklin Coal Co.	517	Panama	Shaft	Freeport
225	Fifth	Parrs Run Coal Co.	518	Parrs Run	Shaft	Moundsville
227	Fifth	Glendale Coal Co.	519	Glendale	Shaft	Glendale
228	Fifth	Wheeling Steel & Iron Co.	520	Benwood	Drift	Benwood
229	Fifth	Kuntz Bros. & Miller	521	Boggs Run	Drift	Wheeling
OHIO COUNTY.						
230	Fifth	Peter Storch & Sons	522	Storch	Drift	Edington Lane
231	Fifth	Elm Grove Coal Co.	523	Elm Grove	Shaft	Elm Grove
232	Fifth	J. S. Creighton	521	Creighton	Slope	Elm Grove
233	Fifth	Whitaker-Glessner Co.	525	Carter	Drift	Wheeling
234	Fifth	Richland Coal Co.	526	Richland	Drift	Wheeling
MASON COUNTY.						
235	Fifth	Hartford Coal & Mining Co.	527	Hartford	Drift	Hartford
236	Fifth	Jackson Coal & Mining Co.	528	Jackson Furnace	Drift	Hartford
237	Fifth	Hutchinson Coal Co.	529	Linden No. 3	Drift	Mason
PUTNAM COUNTY.						
238	Fifth	Plymouth Coal & Mining Co.	536	Plymouth	Drift	Plymouth
239	Fifth	The Otto Marmet Coal & Mining Co.	531	Big Otto Nos. 1-2-3	Drift	Raymond City
240	Fifth	Black Betsy Coal & Mining Co.	532	Black Betsy	Drift	Black Betsy

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
Robt. Grant	Thos. Welch	Up. Freeport	4—	Fan	42	188
		Lo. Kit'ng	6—	Fan		189
R. D. Waddell	R. D. Waddell	Lo. Kit'ng	7— 6	Fan	31	190
J. M. Davis	J. M. Davis	Lo. Kit'ng	6— 6	Fan	43	191
R. A. Smith	V. G. Pew	Lo. Kit'ng	6—	Fan	30	192
H. P. Brydon	B. Seamons	Up. Freeport	4—10	Furnace	31	193
A. Spates Brady	Jas. Christofer	Up. Freeport	5— 6	Fan	491	194
Chas. Bashore	William Harvey	Up. Freeport	2— 2	Fan	37	195
J. C. Watson	F. H. Tibbets	Bakertown	4—	Furnace	12	196
J. C. Watson	F. H. Tibbets	Bakertown	4—	Fan	47	197
J. C. Watson	F. H. Tibbets	Kittanning	3— 6	Furnace	2	198
J. C. Watson	F. H. Tibbets	Kittanning	5—	Fan	25	199
H. H. Harrison	B. S. Coleman	Up. Freeport	3— 6	Fan	17	200
Thos. Taylor	Geo. Shugars	Up. Freeport	4— 6	Furnace	12	201
H. H. Harrison	Elmer Sheets	Pittsburg	11—	Natural	26	202
H. H. Harrison	Elmer Sheets	Pittsburg	11—	Natural	30	203
Robt. Grant	John McNally	Tyson	5—	Natural	33	204
H. H. Harrison	John Kenney	Up. Freeport	3— 6	Fan	37	205
O. Tibbetts	J. A. Tibbetts	Lo. Kit'ng	4—	Fan	80	206
O. Tibbetts	J. A. Tibbetts	Bakertown	3— 6	Fan	59	207
O. Tibbetts	J. A. Tibbetts	Bakertown	3— 6	Fan	34	208
G. W. Gordon	Newt Rutman	Pittsburg	4— 6	Fan	185	209
E. M. Finley	John Roxby	Pittsburg	4— 8	Fan	38	210
O. L. Marquet	Wm. Gullely	Pittsburg	4— 8	Fan	82	211
Elmer Hough	J. E. Wallace	Pittsburg	5— 6	Fan	105	212
R. W. McCasland	Allan Baillie	Up. Freeport	5— 6	Fan	195	213
Lawson Blenkinsopp	Claud Starr	Pittsburg	7—	Fan	121	214
Lawson Blenkinsopp	Worthy Riggs	Pittsburg	7—	Fan	74	215
Chas. Boyer	Chas. Boyer	Pittsburg	6— 6	Furnace	7	216
H. S. Huber	H. S. Huber	Pittsburg	8—	Natural	12	217
H. E. Taylor	Harry Charles	Winifrede	6— 6	Furnace		218
W. E. Davis	Geo. W. Kilburn	Number Five	3— 8	Fan	35	219
L. C. Beirne	Fred Mandt	Winifrede	4—	Fan	60	220
W. R. Morris	Tom Bostie	Number Five	4—	Furnace	11	221
R. T. Price	William Wagner	Number Five	6—	Fan	88	222
E. C. Pickett	Isaac Murray	Pittsburg	5— 8	Fan	256	223
William Young	Seth Stephens	Pittsburg	5—	Fan	95	224
M. F. McQuade	Chas. E. McCabe	Pittsburg	5— 6	Fan	97	225
J. W. Berry	Frank Clegg	Pittsburg	5—10	Fan	44	226
E. C. Pickett	Mike Freeman	Pittsburg	5— 8	Fan	68	227
Chalkey Dawson	R. E. Roush	Pittsburg	5— 6	Fan	101	228
Phillip Kuntz	Eugene Miller	Pittsburg	5— 6	Fan	10	229
George Storch	John Storch	Pittsburg	5—	Furnace	4	230
J. B. Chambers	Albert Eikey	Pittsburg	5—	Fan	4	231
J. S. Creighton	Frank Burdette	Pittsburg	5—	Fan	4	232
W. H. Kasley	W. E. McGlone	Pittsburg	5—	Fan	41	233
J. P. Leonard	E. S. Wade	Pittsburg	5— 6	Fan	258	234
G. W. Coyle	—, L. Riffe	Pittsburg	4—10	Fan	44	235
E. A. Smith	Earl Ewing	Pittsburg	4— 6	Fan	65	236
E. P. McOlvin	Robt. Knight	Pittsburg	4—10	Fan	108	237
W. C. Mitchell	Joseph Virgin	Pittsburg	5— 6	Fan	229	238
Edw. Schonebaum	Andrew Utt	Pittsburg	6—	Fan	310	239
Thos. Woodward	Chas. Cawley	Pittsburg	5— 8	Fan	310	240

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
GILMER COUNTY.						
241	Fifth	McCaa Coal Co.	533	McCaa No. 1	Drift	Gilmer
242	Fifth	Katherine Coal Co.	534	Katherine	Drift	Gilmer
243	Fifth	Gilmer Fuel Co.	535	Gilmer	Drift	Gilmer
FAYETTE COUNTY.						
241	Fifth	Boomer Coal & Coke Co.	536	Boomer No. 1	Drift	Boomer
245	Fifth	Boomer Coal & Coke Co.	537	Boomer No. 2, North and South	Drift	Boomer
246	Fifth	Boomer Coal & Coke Co.	538	Boomer No. 3	Drift	Boomer
247	Fifth	Boomer Coal & Coke Co.	539	Boomer No. 4	Drift	Boomer
248	Fifth	Sunday Creek Co.	540	No. 111	Drift	Carbondale
249	Fifth	Sunday Creek Co.	541	No. 112	Drift	Carbondale
250	Fifth	Sunday Creek Co.	542	No. 114	Drift	Longacre
251	Fifth	Sunday Creek Co.	543	No. 115	Drift	Hagewood
252	Fifth	Columbus Iron & Steel Co.	544	No. 1	Drift	Martins
253	Fifth	W. R. Johnson Coal Co.	545	Oakland Nos. 1-2	Drift	Longacre
254	Fifth	W. R. Johnson Coal Co.	546	Kanawha Gas	Drift	Snithers
255	Seventh	Solvay Collieries Co.	701	No. 1 A & B	Drift	Kingston
256	Seventh	Millburn Coal & Coke Co.	702	No. 1	Drift	Kerferton
257	Seventh	Christian Colliery Co.	703	Christian No. 1	Drift	Mahan
258	Seventh	Paint Creek Colliery Co.	704	Hickory Camp	Drift	Mahan
259	Seventh	The Great Kanawha Colliery Co.	705	Eureka No. 14	Drift	Dougwood
260	Seventh	Mecca Colliery Co.	706	Mecca Gas	Drift	Eagle
261	Seventh	Mecca Colliery Co.	707	Mecca Splint	Drift	Montgomery
262	Seventh	W. R. Johnson Coal Co.	708	Crescent Nos. 5-6	Drift	Crescent
263	Seventh	Mecca Colliery Co.	709	Diamond	Drift	Eagle
264	Seventh	St. Clair Colliery Co.	710	St. Clair	Drift	Eagle
265	Seventh	M. B. Coal & Coke Co.	711	Kimberly No. 3	Drift	Kimberly
266	Seventh	M. B. Coal & Coke Co.	712	Columbia Block	Drift	Kimberly
267	Seventh	M. B. Coal & Coke Co.	713	Elk Ridge No. 1	Drift	Kimberly
268	Seventh	M. B. Coal & Coke Co.	714	Elk Ridge No. 2	Drift	Elk Ridge
269	Seventh	The Mount Carbon Co.	715	Vulcan	Drift	Powellton
270	Seventh	The Great Kanawha Colliery Co.	716	Great Kanawha	Drift	Mt. Carbon
271	Seventh	Loup Creek Colliery Co.	717	Loup Creek No. 2	Drift	Pace
272	Seventh	Herbert Collieries Co.	718	Herberton	Drift	Herberton
273	Seventh	Ft. Defiance Coal & Coke Co.	719	Ft. Defiance	Drift	Gauley Bridge
274	Seventh	Lynchburg Colliery Co.	720	No. 2	Drift	Vanetta
275	Seventh	Gamora Coal Co.	721	No. 5 Splint	Drift	Gamora
276	Seventh	Deitz Colliery Co.	722	Nos. 2-5	Drift	Windfall
277	Eighth	Mill Creek Colliery Co.	801	Mill Creek	Drift	Ansted
278	Eighth	The Gauley Mountain Coal Co.	802	Nova Scotia & Turkey Creek	Drift	Ansted
279	Eighth	The Signal Knob Coal Co.	803	Signal Knob	Drift	Ansted
280	Eighth	Michigan Coal Co.	804	Michigan	Drift	Fayette
281	Eighth	Manufacturers & Consumers Coal Co.	805	Newlyn	Drift	Fayette
282	Eighth	G. M. Blume Estate	806	Fayette	Drift	Fayette
283	Eighth	Nuttallburg Smokeless Fuel Co.	807	Nuttall	Drift	Nuttallburg
284	Eighth	Holliday Coal Co.	808	Keeney's Creek	Drift	Edmond
285	Eighth	Keeney's Creek Colliery Co.	809	Boone	Drift	Winona
286	Eighth	Keeney's Creek Colliery Co.	810	Smokeless	Drift	Winona
287	Eighth	Ballinger Coal Co.	811	Ballinger No. 1	Drift	Winona
288	Eighth	Ballinger Coal Co.	812	Ballinger No. 2	Drift	Nuttallburg
289	Eighth	Rothwell Coal Co.	813	Dubree	Drift	Dubree
290	Eighth	Blume Coal & Coke Co.	814	Blume	Drift	Lookout
291	Eighth	Lookout Coal & Coke Co.	815	Lookout	Drift	Lookout
292	Eighth	Sewell Colliery Co.	816	Sewell	Drift	Caperton
293	Eighth	Glade Coal Works	817	Cliff Top	Drift	Cliff Top
294	Eighth	Fire Creek Coal & Coke Co.	818	Buffalo	Drift	Fire Creek
295	Eighth	Beury Bros. Coal & Coke Co.	819	Echo	Drift	Beury
296	Eighth	Big Bend Coal Co.	820	Big Bend	Drift	Dimmock
297	Eighth	Stone Cliff Coal & Coke Co.	821	Stone Cliff	Drift	Stone Cliff
298	Eighth	Beechwood Coal & Coke Co.	822	Beechwood No. 1	Drift	Claremont
299	Eighth	Beechwood Coal & Coke Co.	823	Beechwood No. 2	Drift	Claremont

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
B. M. Green	B. M. Green	Pittsburg	6—6	Natural	10	241
W. G. Colburn	W. G. Colburn	Pittsburg	7—6	Natural	5	242
W. B. Simms	W. H. Mathena	Pittsburg	7—8	Fan	62	243
T. H. Huddy	John Porter	No. 2 Gas	5—	Fan	230	244
T. H. Huddy	John Huddy & H. T. Woods	No. 1 Gas	5—6	Fan	492	245
T. H. Huddy	John Elswick	No. 2 Gas	5—	Fan	147	246
T. H. Huddy	Sam Kimberly	No. 2 Gas	5—6	Fan	136	247
W. F. Mandt	Lee Jenkins	No. 2 Gas	5—	Fan	139	248
W. F. Mandt	W. H. Thompson	No. 2 Gas	4—9	Fan	215	249
W. F. Mandt	J. C. Evans	No. 2 Gas	5—	Fan	156	250
W. F. Mandt	William Martin	No. 2 Gas	5—6	Fan	257	251
C. M. Fenton	H. A. Jensen	No. 2 Gas	5—6	Fan	159	252
T. A. Bartlam	Ben Hill	No. 2 Gas & No. 1 Eagle	5—	Fan	89	253
T. A. Bartlam	Ben Hill	No. 2 Gas	5—6	Natural	20	254
A. B. Rawn	C. A. Warden	No. 2 Gas	6—	Furnace & Fan	155	255
D. H. Morton	R. Roberts	Eagle	7—	Fan	124	256
H. A. Hereford	G. T. Wall	Big Eagle	5—6	Fan & Fur- nace	61	257
J. F. Hale	W. T. Stull	Eagle	4—	Fan	34	258
Fred Dixon	T. G. Hall	No. 5 Block	5—2	Fan	49	259
H. T. Smarr	T. E. Sutton	No. 2 Gas	4—4	Fan	50	260
H. T. Smarr	C. E. Starrett	No. 5 Block	6—	Fan	36	261
T. A. Bartlam	Tom. Pierce	Nos. 5 & 6 Splint	5—6	Furnace	26	262
H. T. Smarr	James Frazier	No. 2 Gas	4—6	Fan	67	263
Louis Atkinson	C. C. Fultz	Eagle	5—	Fan	66	264
L. C. Tippet	William Holmes	No. 2 Gas	4—	Fan	50	265
L. C. Tippet	W. W. Gill	No. 5 Block	6—	Fan	28	266
L. C. Tippet	Louis Hornsby	Powellton	6—	Fan	63	267
L. C. Tippet	L. M. Payne	Powellton	5—6	Fan	64	268
M. Mansford	J. E. Burke	Powellton	6—6	Fan	102	269
Fred Dixon, Jr.		No. 2 Gas	4—	Natural	26	270
J. R. Taylor	D. S. Dooley	No. 2 Gas	6—	Fan & Fur- nace	259	271
John Connell	Cleve Maynor	Eagle	3—6	Fan	80	272
T. R. Ragland	A. B. Thompson	No. 2 Gas	4—5	Furnace	75	273
T. A. Deitz	J. C. Grisinger	No. 2 Gas & No. 5	5—	Furnace	120	274
J. M. Campbell	J. M. Campbell	No. 5 Splint	5—6	Fan	86	275
T. A. Deitz	L. D. Moran	Nos. 2-5	5—	Furnace	75	276
R. H. Massey	W. W. Johnson	Sewell	3—	Fan	60	277
R. C. Taylor	J. A. Martin	No. 2 Gas	4—	Fan	200	278
R. M. Massey	R. A. Furloine	No. 2 Gas	5—	Fan	50	279
Jas. D. Boone	C. E. Simms	Sewell	3—	Fan	40	280
P. H. Henry	J. W. Simms	Sewell	3—	Fan	60	281
E. Blume	L. D. Rhodes	Sewell	3—	Fan	50	282
F. L. Ramey	F. L. Ramey	Sewell	4—	Fan	73	283
C. McHolliday	C. McHolliday	Sewell	3—8	Fan	36	284
J. Wade Bell	H. B. Conway	Sewell	3—4	Fan	84	285
J. Wade Bell	T. H. Seacrist	Sewell	3—6	Fan	93	286
Geo. Holland	John Ohlinger	Sewell	3—8	Fan	82	287
Geo. Holland	C. E. Small	Sewell	3—8	Natural	6	288
H. H. Rothwell	Chas. Higgins	Sewell	3—8	Fan	43	289
D. W. Boone	A. R. Jones	Sewell	3—	Fan	100	290
D. W. Boone	D. H. Lucas	Sewell	4—	Fan	47	291
D. W. Boone	J. W. Tully	Sewell	4—	Fan	85	292
W. L. Hernston	E. Moore	Sewell	3—	Fan	92	293
H. H. Blackburn	J. W. Rhodes	Fire Creek	3—6	Fan	50	294
H. B. Bourv	Peter Wolf	Fire Creek	4—	Fan	47	295
J. H. Dempsey	O. C. Wiseman	Fire Creek	3—	Fan	22	296
J. H. Dempsey	G. D. McDaniel	Fire Creek	3—	Fan	47	297
E. L. Hawley	R. B. Hanns	Fire Creek	4—	Fan	68	298
E. L. Hawley	John O'Daniel	Fire Creek	4—	Fan	42	299

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
FAYETTE COUNTY—Con.						
300	Eighth	Alaska Coal & Coke Co.	824	Alaska	Drift	Claremont
301	Eighth	Ephraim Creek Coal & Coke Co.	825	Buffalo & Slater	Drift	Thayer
302	Eighth	Export Coal Co.	826	Export	Drift	Export
303	Eighth	Laurel Creek Coal Co.	827	Laurel Creek	Drift	Laurel Creek
304	Eighth	Glendale Colliery Co.	828	Glendale	Drift	Buck Lick
305	Eighth	Greenmount Coal Co.	829	Big Q Mine	Drift	Lawton
306	Eighth	Greenwood Coal Co.	830	Greenwood	Drift	Lawton
307	Eighth	Hemlock Hollow Coal Co.	831	Hemlock	Drift	Lawton
308	Eighth	New River & Pocahontas Coal Co.	832	Layland Nos. 1-2-3-4	Drift	Layland
309	Eighth	The Low Moor Iron Co. of Virginia	833	Kay Moor No. 1	Drift	Kay Moor
310	Eighth	The Low Moor Iron Co. of Virginia	834	Kay Moor No. 2	Drift	Kaymoor
311	Eighth	Brown Coal Co.	835	Brown	Drift	Nuttallburg
312	Eighth	Branch Coal & Coke Co.	836	Elverton	Drift	Elverton
313	Eighth	South Side Co.	837	South Side	Drift	Cupertino
314	Eighth	Scotia Coal & Coke Co.	838	Brooklyn	Drift	Finlow
315	Eighth	Scotia Coal & Coke Co.	839	Rush Run and Oncomore	Drift	Rush Run
316	Eighth	Scotia Coal & Coke Co.	840	Red Ash	Drift	Red Ash
317	Eighth	The Thurmond Coal Co.	841	Thurmond No. 1	Drift	Concho
318	Eighth	The Thurmond Coal Co.	842	Thurmond No. 2	Drift	Concho
319	Eighth	New River & Poca. Cons. Coal Co.	843	Minden No. 2	Drift	Minden
320	Eighth	New River & Poca. Cons. Coal Co.	844	Minden No. 3	Drift	Minden
321	Eighth	New River & Poca. Cons. Coal Co.	845	Minden No. 4	Drift	Minden
322	Eighth	New River & Poca. Cons. Coal Co.	846	Minden No. 5	Drift	Minden
323	Ninth	MacDonald Colliery Co.	901	MacDonald	Drift	MacDonald
324	Ninth	Sugar Creek Coal & Coke Co.	902	Sugar Creek Nos. 1-2-3	Slope	Mt. Hope
325	Ninth	White Oak Fuel Co.	903	Whipple	Shaft	Whipple
326	Ninth	White Oak Fuel Co.	904	Carlisle	Shaft	Carlisle
327	Ninth	White Oak Fuel Co.	905	Oakwood	Shaft	Carlisle
328	Ninth	White Oak Fuel Co.	906	Wingrove	Shaft	Wingrove
329	Ninth	White Oak Fuel Co.	907	Scarbrough	Shaft	Scarbrough
330	Ninth	Prudence Coal Co.	908	Prudence, Jones & Lyman	Drift	Prudence
331	Ninth	Stuart Colliery Co.	909	Lochgelly	Shaft	Lochgelly
332	Ninth	Stuart Colliery Co.	910	Summerlee	Shaft	Parral
333	Ninth	Turkey Knob Coal Co.	911	Hickory Branch	Drift	Macdonald
334	Ninth	Turkey Knob Coal Co.	912	Turkey Knob	Drift	Macdonald
335	Ninth	Laura Mining Co.	913	Laura	Drift	Redstar
336	Ninth	Meadow Fork Coal Co.	914	Meadow Fork	Drift	Newlyn
337	Ninth	Dunlop Coal & Coke Co.	915	Klondyke	Drift	Dunlop
338	Ninth	The Mt. Hope Coal & Coke Co.	916	Baby	Slope	Mt. Hope
339	Ninth	McKell Coal & Coke Co.	917	Derryhale	Drift	Derryhale
340	Ninth	McKell Coal & Coke Co.	918	Kilsythe	Drift	Kilsythe
341	Ninth	Nichol Colliery Co.	919	Nichol	Drift	Glen Jean
342	Ninth	Newlyn Coal Co.	920	Newlyn	Drift	Newlyn
343	Ninth	Harvey Coal & Coke Co.	921	Harvey Nos. 1-2	Drift	Harvey
344	Ninth	Collins Colliery Co.	922	Collins Nos. 1-2	Drift	Glen Jean
345	Ninth	The Star Coal & Coke Co.	923	Star	Drift	Red Star
246	Ninth	Dunglen Coal Co.	924	Dunglen	Drift	Thurmond
347	Ninth	New River Collieries Co.	925	Sun Nos. 1-2-3	Shaft	Sun
KANAWHA COUNTY.						
348	Fifth	Cannelton Coal & Coke Co.	547	Nos. 1-2	Drift	Cannelton
349	Fifth	Cannelton Coal & Coke Co.	548	No. 3	Drift	Cannelton
350	Fifth	Hughes Creek Coal Co.	549	Nos. 2-3-4	Drift	Hucheston
351	Fifth	Kellys Creek Colliery Co.	550	No. 1	Drift	Ward
352	Fifth	Kellys Creek Colliery Co.	551	No. 3	Drift	Ward
353	Fifth	Sunday Creek Co.	552	No. 101	Drift	Shrewsbury
354	Fifth	Sunday Creek Co.	553	No. 104	Drift	Cedar Grove
355	Fifth	Sunday Creek Co.	554	No. 105	Drift	Mammoth
356	Fifth	The Marinet Coal Co.	555	Monarch Nos. 1-2	Drift	Monarch
357	Fifth	Quincy Coal Co.	556	Quincy No. 2	Drift	Quincy
358	Fifth	The Campbells Creek Coal Co.	557	No. 1	Drift	Dana
359	Fifth	The Campbells Creek Coal Co.	558	No. 3	Drift	Dana
360	Fifth	Virginia Coal Co.	559	No. 1	Drift	Coal Fork
361	Fifth	Morris Fork Coal Co.	560	Turner Nos. 1-2	Drift	Heatherman
362	Fifth	Villa Coal Mining Co.	561	Mill Creek	Drift	Villa
363	Fifth	Williams Coal Co.	562	Williams	Drift	Sanderson

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
G. Lawton	S. M. Peters	Fire Creek	4—	Fan	23	300
William Warner	Elmer Bretzman	Fire Creek	4—	Fan	128	301
E. E. Huddleston	C. E. Chamberlain	Fire Creek	3— 6	Fan	43	302
E. E. Lawton	J. A. Atkinson	Fire Creek	3— 8	Fan	64	303
C. B. Hilwig	Geo. L. Moran	Fire Creek	4—	Fan	31	304
J. C. Gallaudette	Edw. Gordon	Fire Creek	4—	Fan	62	305
W. A. Brown	H. C. Peters & J. H. Wood	Fire Creek	4—	Fan	142	306
J. A. Brown	D. S. Brown	Fire Creek	3— 8	Fan	71	367
A. K. Wood	Louis Nahodil	Fire Creek	3—10	Fan	302	308
Geo. H. Esser	A. B. Reese	Sewell	3— 6	Fan	165	309
G. H. Esser	Mike Blythe	Sewell	3—	Fan	33	310
J. A. Boone	J. R. Fraser	Sewell	4— 4	Fan	105	311
W. R. Zimmerman	W. D. Crickmer	Sewell	4—	Fan	45	312
Robt. Boyd	Robt. Boyd	Sewell	4—	Fan	93	313
J. H. Carter	W. S. Williamson	Sewell	4—	Fan	85	314
G. H. Caperton, Jr.	W. Cuthbertson	Fire Creek	5— 2	Fan	62	315
G. H. Caperton, Jr.	J. W. Cuthbertson	Fire Creek	5— 6	Fan	37	316
Gilbert Smith	T. E. Maroney	Sewell	3—10	Fan	147	317
Gilbert Smith	H. J. Letlin	Fire Creek	3— 2	Fan	5	318
John Clapperton	J. A. Forbes	Sewell	4—	Fan	169	319
John Clapperton	D. C. Lindsey	Sewell	4—	Fan	169	320
John Clapperton	William Rothwell	Sewell	4—	Fan	192	321
John Clapperton	John Lindsey	Sewell	4—	Fan	188	322
B. C. Shoemaker	W. D. Lewis	Sewell	4—	Fan	102	323
N. S. Blake	Allan Hoffer	Sewell	5— 6	Fan and Fur- nace	93	324
John Porter	Samuel Frye	Sewell	4— 6	Fan	65	325
Edward Graff	J. H. Hall	Sewell	3— 6	Fan	98	326
Edward Graff	William Pilkington	Sewell	3— 6	Fan	92	327
John Porter	J. R. Porter	Sewell	4— 4	Fan	145	328
John Porter	J. R. Porter	Sewell	4— 4	Fan	100	329
J. W. Wedgwood	E. J. Robertson	Sewell & Fire Creek	5—	Fan	222	330
J. K. Hobaugh	Gus Pilling	Sewell	4—	Fan	85	331
J. K. Hobaugh	John E. Powell	Sewell	4—	Fan	126	332
J. E. Beury	J. M. Price	Sewell	5—10	Fan		333
J. E. Beury	J. M. Price	Sewell	5—	Fan	115	334
Thos. Nichol	A. L. Nelson	Sewell	5— 6	Fan	41	335
Edw. Thomas	Hogue Meadows	Sewell	5—	Furnace	35	336
B. C. Shoemaker	R. J. Martin	Sewell	5— 6	Fan	160	337
H. W. Bailey	T. L. Pugh	Sewell	6—	Fan	34	338
Lewis Lewis	J. M. Hastings	Sewell	5— 6	Fan	83	339
H. H. Oneal	John Warren	Sewell	5— 6	Fan	261	340
Stanley Spoor	M. Barron	Sewell	5— 6	Fan	65	341
Edw. Thomas	H. P. Thomas	Fire Creek	3— 6	Fan	24	342
J. K. Gentry	J. A. McAlister	Sewell	4— 4	Fan	108	343
J. K. Gentry	Henry Blake	Sewell	5—	Fan	140	344
D. Evendolle	Andrew Easton	Sewell	5—	Fan	144	345
William Brown	William Brawn	Sewell	4— 6	Natural	213	346
M. E. Kent	Thos. Kent	Sewell	5— 6	Fans	350	347
F. O. Harris	Henry Deem	No. 2 Gas	6—	Fan	412	348
F. O. Harris	Henry Deem	Eagle	4— 6	Fan	66	349
J. C. Gilmour	T. H. Gosnay	Coalburg & No. 2 Gas	4— 6	Fan	155	350
Chas. Gressang	J. W. Cooper	Coalburg	6—	Fan	26	351
Chas. Gressang	Harry E. Vaughn	Coalburg	5— 6	Fan	183	352
E. L. Michie	James Kennedy	Coalburg	6—	Fan	102	353
E. L. Michie	J. H. Miller	Coalburg	4—10	Fan	98	354
E. L. Michie	J. W. Frazier	Coalburg	5— 2	Fan	220	355
W. H. Morris	Lew Roach	Cedar Grove	3— 6	Fan	105	356
J. C. Gilmour, Jr.	Jas. Herrmings	No. 5	5— 6	Fan	55	357
W. V. Rensford	Andrew Calderwood	No. 5	5—	Fan	213	358
W. V. Rensford	Andrew Calderwood	No. 5	5— 6	Fan	125	359
T. A. Kay	Thos. Boyd	No. 2 Gas	4—	Fan	48	360
A. H. Lee	A. W. DeWitt	No. 5	4—	Fan	53	361
H. A. Jepson	Henry Matheny	Cannel	4—	Fan	20	362
William Crichton	R. L. Miller	No. 5	4— 6	Fan	21	363

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
KANAWHA COUNTY—Con.						
364	Fifth	Standard Kanawha Coal Mining Co.	563	No. 1	Drift	Quick
365	Fifth	Standard Kanawha Coal Mining Co.	564	No. 2	Drift	Quick
366	Fifth	Queen Shoals Coal Co.	565	Queen Shoals	Drift	Queen Shoals
367	Fifth	Blue Creek Coal & Land Co.	566	Wills Hollow Nos. 1-2	Drift	Blakeley
368	Fifth	Blue Creek Coal & Land Co.	567	Blakeley No. 3	Drift	Blakeley
369	Fifth	Coopers Creek Coal Co.	568	Pearcock	Drift	Bream
370	Fifth	Pen Mar Mining Co.	569	Pen Mar	Drift	Bream
371	Sixth	The Olcott Coal & Iron Co.	612	No. 1	Drift	Olcott
372	Sixth	The Olcott Coal & Iron Co.	613	No. 2	Drift	Olcott
373	Sixth	Paint Creek Collieries Co.	614	Reynolds	Drift	Olcott
374	Sixth	Paint Creek Collieries Co.	615	Knickerbocker	Drift	Dungrift
375	Sixth	The Marmet Coal Co.	616	New Butler	Drift	Marmet
376	Sixth	The Marmet Coal Co.	617	Lens Creek	Drift	Marmet
377	Sixth	The Marmet Coal Co.	618	Black Band	Drift	Marmet
378	Sixth	Winifrede Coal Co.	619	North	Drift	Winifrede
379	Sixth	Winifrede Coal Co.	620	West	Drift	Winifrede
380	Sixth	Winifrede Coal Co.	621	South	Drift	Winifrede
381	Sixth	Lewis Coal & Coke Co.	622	Lewiston	Drift	Chelyan
382	Sixth	Dry Branch Coal Co.	623	Dry Branch	Drift	Dry Branch
383	Sixth	Dry Branch Coal Co.	624	Belmont No. 3	Drift	Dry Branch
384	Sixth	Coalburg Colliery Co.	625	Ronda	Drift	Ronda
385	Sixth	The Persinger Coal Co.	626	Wilton	Drift	Miami
386	Sixth	Wyatt Coal Co.	627	Horton No. 1	Drift	Sharon
387	Sixth	Wyatt Coal Co.	628	Horton No. 2	Drift	Sharon
388	Sixth	Wyatt Coal Co.	629	Oakley	Drift	Eventon
389	Sixth	Wyatt Coal Co.	630	Berlin	Drift	Laing
390	Sixth	Southern Collieries Co.	631	Lamont No. 3	Drift	Eskdale
391	Sixth	The Holley & Stephenson C.&C. Co.	632	Stephenson No. 2	Drift	Eskdale
392	Sixth	The Holley & Stephenson C.&C. Co.	633	Stephenson No. 5	Drift	Eskdale
393	Sixth	Wake Forest Mining Co.	634	Wake Forest	Drift	Wake Forest
394	Sixth	Carbon Coal Co.	635	North	Drift	Nabob
395	Sixth	Carbon Coal Co.	636	Carbon Gas or South	Drift	Carbon
396	Sixth	Carbon Coal Co.	637	Carbon Splint	Drift	Carbon
397	Sixth	Carbon Coal Co.	638	Low Sulphur	Drift	Nabob
398	Sixth	West Virginia Colliery Co.	639	No. 1	Drift	Wevaco
399	Sixth	West Virginia Colliery Co.	640	No. 2	Drift	Wevaco
400	Sixth	West Virginia Colliery Co.	641	No. 3	Drift	Wevaco
401	Sixth	West Virginia Colliery Co.	642	No. 4	Drift	Wevaco
402	Sixth	Republic Coal Co.	643	No. 1	Drift	Carbon
403	Sixth	Republic Coal Co.	644	No. 2	Drift	Carbon
404	Sixth	Republic Coal Co.	645	No. 3	Drift	Carbon
405	Sixth	Republic Coal Co.	646	No. 5	Drift	Carbon
406	Sixth	Cabin Creek Consolidated Coal Co.	647	Caledonia	Drift	Warrior
407	Sixth	Cabin Creek Consolidated Coal Co.	648	Davis	Drift	Ohley
408	Sixth	Cabin Creek Consolidated Coal Co.	649	Holly	Drift	Leewood
409	Sixth	Cabin Creek Consolidated Coal Co.	650	Quarrier	Drift	Wake Forest
410	Sixth	Cabin Creek Consolidated Coal Co.	651	Belleclare	Drift	Decota
411	Sixth	Cabin Creek Consolidated Coal Co.	652	Ruby	Drift	Decota
412	Sixth	Cabin Creek Consolidated Coal Co.	653	United Splint	Drift	Wevaco
413	Sixth	Cabin Creek Consolidated Coal Co.	654	United Gas	Drift	Wevaco
414	Sixth	Cabin Creek Consolidated Coal Co.	655	Red Warrior	Drift	Warrior
415	Sixth	Cabin Creek Consolidated Coal Co.	656	Cherokee	Drift	Leewood
416	Sixth	Cabin Creek Consolidated Coal Co.	657	Buckeye	Drift	Acme
417	Sixth	Cabin Creek Consolidated Coal Co.	658	Empire	Drift	Acme
418	Sixth	Cabin Creek Consolidated Coal Co.	659	Black Tulip	Drift	Acme
419	Sixth	Cabin Creek Consolidated Coal Co.	660	Keystone	Drift	Acme
420	Sixth	Cabin Creek Consolidated Coal Co.	661	Acme	Drift	Acme
421	Sixth	Cabin Creek Consolidated Coal Co.	662	Shamrock	Drift	Kayford
422	Sixth	Cabin Creek Consolidated Coal Co.	663	Raccoon Gas	Drift	Kayford
423	Sixth	Cabin Creek Consolidated Coal Co.	664	Raccoon No. 2 East & West	Drift	Kayford
424	Sixth	Cabin Creek Consolidated Coal Co.	665	Kayford	Drift	Kayford
425	Sixth	Cabin Creek Consolidated Coal Co.	666	Thistle	Drift	Kayford
426	Sixth	Cabin Creek Consolidated Coal Co.	667	Rose	Drift	Kayford
427	Seventh	Paint Creek Collieries Co.	723	Seranton	Drift	Mucklow
428	Seventh	Paint Creek Collieries Co.	724	Paint Creek	Drift	Mucklow
429	Seventh	Paint Creek Collieries Co.	725	Wacomah	Drift	Mucklow

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
R. M. Leyshon	Sam Roebuck	No. 5	5-2	Fan	76	364
R. M. Leyshon	J. M. Ross	No. 5	5-8	Fan	24	365
W. R. Morris	Chas. Leftwich	No. 5	4-	Furnace	14	366
Wm. Crichton, Jr.	Harry Rowland	No. 5	4-6	Fan	40	367
Wm. Crichton, Jr.	T. H. Carlin	No. 5	5-	Fan	68	368
O. D. Strader	O. D. Strader	No. 5	5-4	Natural	10	369
J. Householder	Chas. Johnson	No. 5	4-2	Furnace	9	370
W. C. Lingle	Walter Dale	Black Band	3-	Fan	55	371
W. C. Lingle	C. E. Griffith	Black Band	3-9	Fan	53	372
A. J. Hale	W. H. Clendennin	Black Band	3-10	Fan	87	373
Lee Scott	Will Miller	Black Band	3-2	Furnace	78	374
W. H. Morris	T. J. MacAllister	No. 2	7-	Fan	64	375
W. H. Morris	T. J. MacAllister	Cedar Grove	3-10	Fan	51	376
W. H. Morris	Robt. Taylor	Black Band	3-10	Fan	102	377
F. D. Barron	W. L. Harless	Winifrede	4-10	Fan	125	378
F. D. Barron	C. A. McKee	Winifrede	4-2	Fan	110	379
F. D. Barron	W. L. Harless	Winifrede	5-4	Fan	118	380
S. A. Lewis	D. B. Howery	Lewiston	4-6	Furnace & Fan	87	381
L. D. Burns	C. F. Slack	Coalburg	4-10	Fan	70	382
L. D. Burns	C. F. Slack	Belmont	4-2	Fan	14	383
L. D. Burns	S. M. Smith	Coalburg	5-11	Fan	97	384
A. W. Persinger	J. C. Price	Cedar Grove	3-6	Natural	22	385
A. W. Laing	A. E. Thomas	Coalburg	6-	Fan	90	386
A. W. Laing	A. E. Thomas	Coalburg	4-	Fan	56	387
A. W. Laing	Ed. Haywood	Lewiston	4-	Fan	62	388
Jas. Laing	W. A. Gilchrist	No. 2 Gas	5-8	Fan	80	389
C. S. White	C. C. Parker	No. 2 Gas & Coalburg	6-4	Fan	35	390
F. H. McClung	J. A. Williams	No. 2 Gas	5-	Fan	73	391
F. H. McClung	D. W. Williams	Lewiston	5-	Fan	65	392
J. C. Grymes	Jesse Gardiner	No. 2 Gas	5-	Fan	80	393
C. A. Pierce	Henry Clendennin	No. 2 Gas	5-6	Fan	18	394
C. A. Pierce	H. L. Patterson	No. 2 Gas	5-6	Fan	42	395
C. A. Pierce	S. L. Thomas	Coalburg	5-6	Fan	60	396
C. A. Pierce	G. D. Smedley	No. 1 Gas	6-	Fan	10	397
K. D. Quarrier	Geo. Buckley	No. 2 Gas	5-10	Fan	84	398
K. D. Quarrier	Wm. Coiner	No. 2 Gas	5-6	Furnace	24	399
K. D. Quarrier	C. L. Petty	Coalburg	7-	Fan	82	400
K. D. Quarrier	Chas. Frazier	No. 2 Gas	5-6	Fan	53	401
M. W. Murphy	C. A. Hughes	No. 2 Gas	5-2	Fan	30	402
M. W. Murphy	S. E. Thomas	No. 2 Gas	5-1	Fan	15	403
M. W. Murphy	John Shawhan	No. 2 Gas	5-	Fan	36	404
M. W. Murphy	Owen Meadows	Coalburg	5-6	Fan	17	405
V. A. Miller	R. L. Caviness	No. 2 Gas	4-	Fan	21	406
Harry Davis	Harry Davis	Belmont	5-	Fan	52	407
V. A. Miller	D. H. Phelps	No. 2 Gas	4-6	Fan	36	408
V. A. Miller	J. W. Gray	No. 2 Gas	5-	Fan	45	409
A. P. Sherer	H. C. Young	No. 2 Gas	4-6	Fan	43	410
A. P. Sherer	W. H. Kirby	Coalburg	5-	Fan	34	411
H. G. Howell	Chas. Montgomery	Coalburg	6-	Fan	39	412
H. G. Howell	J. E. Shafer	No. 2 Gas	5-	Fan	77	413
V. A. Miller	R. L. Caviness	No. 2 Gas	4-	Fan	26	414
V. A. Miller	J. C. Slegb	No. 2 Gas	4-6	Fan	40	415
W. A. Otey	John Eads	No. 2 Gas	5-6	Fan	42	416
W. A. Otey	Wm. Batton	No. 2 Gas	4-8	Fan	35	417
W. A. Otey	F. E. Sherer	No. 2 Gas	5-3	Fan	40	418
W. A. Otey	Chap Cash	No. 2 Gas	5-	Fan	31	419
W. A. Otey	John Dower	Coalburg	5-4	Fan	28	420
H. L. Fisher	John Armentrouth	No. 2 Gas	5-8	Fan	52	421
H. L. Fisher	Jas. A. Cole	No. 2 Gas	5-6	Fan	38	422
H. L. Fisher	Geo. Hogue	Coalburg	6-	Fan	74	423
H. L. Fisher	Morey Darby	No. 2 Gas	5-8	Fan	92	424
H. L. Fisher	P. L. Rose	No. 2 Gas	5-3	Fan	42	425
H. L. Fisher	Sam Hogue	Coalburg	6-	Fan	59	426
John Green	John Cox	Coalburg	5-	Fan	50	427
John Green	T. M. Burke	Coalburg & Lewiston	6-	Fan	111	428
John Green	Geo. Hudnall	Coalburg	5-	Fan	75	429

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
KANAWHA COUNTY—Con.						
430	Seventh	Paint Creek Collieries Co.	726	Banner Nos. 1-2	Drift	Mucklow
431	Seventh	Paint Creek Collieries Co.	727	Standard	Drift	Standard
432	Seventh	Paint Creek Collieries Co.	728	Detroit	Drift	Burnwell
433	Seventh	Paint Creek Collieries Co.	729	Morton No. 1	Drift	Tombsburg
434	Seventh	Paint Creek Collieries Co.	730	Grose Nos. 1-2	Drift	Tombsburg
435	Seventh	Paint Creek Collieries Co.	731	No. 2 or Greenbrier	Drift	Burnwell
436	Seventh	Imperial Colliery Co.	732	Imperial No. 1	Drift	Burnwell
437	Seventh	Imperial Colliery Co.	733	Nos. 2-3	Drift	Burnwell
438	Seventh	The Coalburg Kanawha Coal Co.	734	"A" & "B"	Drift	Coalburg
439	Seventh	East Bank Mining Co.	735	East Bank	Drift	East Bank
440	Seventh	Southwestern Splint Fuel Co.	736	Black Cat	Drift	Crown Hill
441	Seventh	Belmont Coal Co.	737	Belmont	Drift	Crown Hill
442	Seventh	Crown Hill Kanawha Coal Co.	738	Crown Hill No. 8	Drift	Crown Hill
443	Seventh	Chesapeake Mining Co.	739	Chesapeake Nos. 1-2	Drift	Handley
444	Seventh	Chesapeake Mining Co.	740	Chesapeake No. 3	Drift	Handley
445	Seventh	Montgomery Coal Co.	741	Kanawha	Drift	Montgomery
446	Seventh	Morris Creek Colliery Co.	742	Morris Creek	Drift	Donwood
BOONE COUNTY.						
447	Sixth	The Coal River Co.	661	Ottawa No. 1	Drift	Jeffrey
448	Sixth	The Spruce River Coal Co.	602	Ramage	Drift	Ramage
449	Sixth	Peytona Block Coal Co.	603	No. 1 Cannel	Drift	Peytona
450	Sixth	Peytona Block Coal Co.	604	No. 2 Cannel	Drift	Peytona
451	Sixth	The Hickory Ash Coal Co.	605	Nos. 1-2-3	Drift	Peytona
452	Sixth	Seng Creek Coal Co.	606	Blue Star	Drift	Jarrolds Valley
453	Sixth	Webb Coal Mining Co.	607	Webb	Drift	Garrison
454	Sixth	Anchor Coal Co.	608	Anchor	Drift	Highcoal
LOGAN COUNTY.						
455	Sixth	The Coal Valley Mining Corp.	668	Sylvia	Drift	Clothier
456	Sixth	Coal River Coal & Coke Co.	669	Dobra	Drift	Dobra
457	Sixth	Spruce Bend Coal Co.	670	Sharples No. 1	Drift	Sharples
458	Sixth	Mifflin Coal Co.	671	No. 1	Drift	Clothier
459	Sixth	Black Hawk Colliery Co.	672	Black Hawk	Drift	Big Creek
460	Sixth	Stone Branch Coal Co.	673	Stone Branch	Drift	Stone Branch
461	Sixth	Guyandotte Coal Co.	674	Guyandotte	Drift	Kitchen
462	Sixth	E. R. Johnson Coal Mining Co.	675	Johnson Nos. 1-2	Drift	Hughey
463	Sixth	Draper Coal & Coke Co.	576	Draper	Drift	Logan
464	Sixth	H. T. Wilson Coal Co.	677	Wilson	Drift	Logan
465	Sixth	Fort Branch Coal Corporation	678	Fort Branch	Drift	Fort Branch
466	Sixth	Prie Coal Co.	679	Wanda	Drift	Ethel
467	Sixth	Rex Coal & Coke Co.	680	Rex	Drift	Ethel
468	Sixth	The Logan Coal Co.	681	Logan	Drift	Ethel
469	Sixth	Manitoba Coal Co.	682	Manitoba	Drift	Ethel
470	Sixth	The Ethel Coal Co.	683	Ethel Nos. 1-2	Drift	Ethel
471	Sixth	The Monitor Coal & Coke Co.	684	Monitor	Drift	Logan
472	Sixth	The Yuma Coal & Coke Co.	685	Yuma	Drift	Logan
473	Sixth	The Gay Coal & Coke Co.	686	Gay	Drift	Logan
474	Sixth	Shamrock Coal Co.	687	Litz No. 1	Drift	Logan
475	Sixth	Cora Coal & Coke Co.	688	Cora	Drift	Cora
476	Sixth	United States Coal & Oil Co.	689	Island Creek No. 1	Drift	Holden
477	Sixth	United States Coal & Oil Co.	690	Island Creek No. 2	Drift	Holden
478	Sixth	United States Coal & Oil Co.	691	Island Creek No. 3	Drift	Holden
479	Sixth	United States Coal & Oil Co.	692	Island Creek No. 4	Drift	Holden
480	Sixth	United States Coal & Oil Co.	693	Island Creek Nos. 5-6	Drift	Holden
481	Sixth	United States Coal & Oil Co.	694	Island Creek No. 7	Drift	Holden
482	Sixth	United States Coal & Oil Co.	695	Island Creek No. 8	Drift	Holden
483	Sixth	United States Coal & Oil Co.	696	Island Creek Nos. 9-10	Drift	Holden
484	Sixth	Manbar Coal Co.	697	Manbar	Drift	Manbar
485	Sixth	Ferndale Coal Co.	698	Earling	Drift	Ethel
486	Sixth	Kohinoor Coal & Coke Co.	699	Big Vein	Drift	Craneco
487	Sixth	Aracoma Coal Co.	699-A	Nos. 1-2	Drift	Logan
488	Sixth	McGregor Coal Co.	699-B	McGregor	Drift	Yolyn

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
John Green	D. L. Walters	Coallurg & Lewiston	6—2	Fan & Fur- nace	72	430
Walter Wood	Ed. Foster	Coallurg	7—	Fan	125	431
John Green	Geo. Hogue	Eagle	4—	Fan	36	432
John Green	Dick Gill	Eagle	4—	Furnace	16	433
J. F. Hale	V. D. Johnson	Eagle & Powellton	5—	Fan	37	434
J. F. Hale	Lee Patrick	No. 2 Gas	5—3	Fan	56	435
F. H. Morton	L. R. Howell	Eagle	6—	Fan	80	436
F. H. Morton	M. D. Boulden	Eagle	5—	Fan	60	437
J. A. Willis	J. N. Burgraff	Coallurg & Belmont	5—	Fan	83	438
A. M. Howerly	Edw. Clark	Cedar Grove	2—8	Furnace	14	439
S. B. Brydon	G. C. Bailey	Coallurg	4—6	Fan	31	440
F. B. Stewart	C. B. Stewart	Coallurg	5—5	Fan	92	441
E. L. Brewer	R. E. Mitchell	Coallurg	5—	Fan	93	442
C. C. Lovett	C. C. Lovett	No. 2 Gas	5—4	Fan	106	443
C. C. Lovett		Coallurg & No. 2 Gas	5—	Fan	91	444
S. H. Montgomery	S. P. Johnson	Coallurg	5—	Fan	65	445
Gordon S. Seal	J. Abraham	Winifrede	4—6	Fan	56	446
J. M. Moore	Ed. Zwilling	No. 1 Gas	5—	Fan	51	447
J. B. Ramage	Ed. Stanley	No. 1 Gas	5—6	Fan	30	448
H. Mead	A. Stover	Peytona Cannel	2—6	Furnace	9	449
C. H. Mead	R. A. Snead	Cedar Grove	4—2	Furnace	40	450
C. E. Voglesang	Thos. Waters	No. 2	4—	Fan	36	451
Frank Facnola	B. Facnola	Coallurg	5—6	Fan	43	452
John Holmes	Robt. Walker	Coallurg	7—10	Fan	71	453
G. H. Hornickel	Robt. Cadwalender	Winifrede	7—	Fan	52	454
D. C. Thomas	H. Poirrier	No. 2 Gas	5—	Fan	35	455
B. J. Hiner	G. W. Lax	No. 2 Gas	5—	Fan	43	456
Sam. Butler	W. B. Parks	No. 2 Gas	5—	Fan	32	457
R. B. Whitman	Chas. Walton	No. 2 Gas	5—6	Fan	44	458
J. L. Dawson	J. L. Dawson	No. 2 Gas	7—	Furnace	12	459
C. W. Jones	W. Hunter	No. 2 Gas	4—8	Fan	61	460
W. J. Smith	W. J. Smith	No. 2 Gas	5—	Fan	50	461
John Early	John Early	Powellton	4—	Fan	31	462
J. G. Bolton	E. M. Stephens	Draper	4—6	Fan	57	463
James Somers	J. G. Bolton	Powellton	4—6	Fan	58	464
B. L. Flynn	Robert Gee	Winifrede	4—10	Fan	33	465
T. O. Deaumer	C. D. Hylton	Winifrede	5—	Fan	45	466
R. E. Chatfield	G. H. Bolen	Winifrede	5—2	Fan	57	467
B. L. Flynn	W. W. Bradley	Winifrede	5—	Fan	62	468
L. Epperly	O. I. Jenkins	Island Creek	5—	Fan	46	469
J. E. Barlow	A. O. Cooper & C. D. Hylton	Winifrede	5—2	Fan	77	470
C. Robertson	R. B. Barlow	No. 2 Gas	6—7	Fan	197	471
H. Gay	W. L. Stevens	Island Creek	6—2	Fan	74	472
C. W. Jones	F. Kellerman	Island Creek	5—8	Fan	60	473
C. W. Jones	Eli Roberts	Island Creek	6—	Fan	44	474
F. A. Sharp	F. S. Richards	No. 2 Gas	6—	Fan	76	475
F. A. Sharp	J. W. Snyder	Island Creek	6—6	Fan	283	476
F. A. Sharp	W. A. Jones	Island Creek	6—6	Fan	251	477
F. A. Sharp	Joe Snodgrass	Island Creek	6—6	Fan	178	478
F. A. Sharp	J. White	Island Creek	6—6	Fan	210	479
F. A. Sharp	J. W. Hair	Island Creek	6—6	Fan	129	480
F. A. Sharp	G. L. Davis	Island Creek	6—6	Fan	74	481
F. A. Sharp	W. G. Whitman	Island Creek	6—6	Fan	50	482
F. A. Sharp	Geo. Thompson	Island Creek & Draper	5—	Fan	80	483
P. J. Riley	M. J. Riley	Eagle	5—	Furnace	11	484
A. N. Jenkins	G. E. Sanford	Eagle	5—	Fan	32	485
T. J. Davis	Thos. Evans	No. 2 Gas	7—4	Fan	27	486
F. E. King	M. McParland	Island Creek	6—	Fan	66	487
A. Boyd	A. Boyd	Thacker	6—	Natural	20	488

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30TH, 1911.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
RALEIGH COUNTY.						
489	Sixth	Clear Fork Coal Co.	609	Leevale	Drift	Jarrolds Valley
490	Sixth	Four States Coal & Coke Co.	610	Dorothy	Drift	Dorothy
491	Sixth	Four States Coal & Coke Co.	611	Sarita	Drift	Dorothy
492	Eighth	Stonewall Coal & Coke Co.	847	Terry	Drift	Terry
493	Eighth	Stonewall Coal & Coke Co.	848	Stonewall	Drift	Stonewall
494	Eighth	Wright Coal & Coke Co.	849	Wright No. 2	Drift	Wright
495	Eighth	Wright Coal & Coke Co.	850	Wright No. 1	Drift	Wright
496	Ninth	City Coal Co.	926	City Coal Co.	Drift	Beckley
497	Ninth	Price Hill Fuel Co.	927	Price Hill	Shaft	Price Hill
498	Ninth	Raleigh Coal & Coke Co.	928	Raleigh No. 3	Drift	Raleigh
499	Ninth	Raleigh Coal & Coke Co.	929	Raleigh Nos. 1-2-4	Drift	Raleigh
500	Ninth	Raleigh Coal & Coke Co.	930	Raleigh No. 5	Drift	Mabscott
501	Ninth	Raleigh Coal & Coke Co.	931	Raleigh No. 6	Drift	Raleigh
502	Ninth	Slab Fork Coal Co.	932	Nos. 1-2-3-4-5	Drift	Slab Fork
503	Ninth	Pemberton Coal & Coke Co.	933	Pemberton No. 1	Shaft	Affinity
504	Ninth	McKell Coal & Coke Co.	934	Tamroy	Drift	Oswald
505	Ninth	McKell Coal & Coke Co.	935	Oswald Nos. 1-2	Drift	Oswald
506	Ninth	McKell Coal & Coke Co.	936	Graham Nos. 1-2	Drift	Oswald
507	Ninth	Blue Jay Lumber Co.	937	Blue Jay No. 4	Drift	Glen Morgan
508	Ninth	Mabscott Coal & Coke Co.	938	Mabscott	Drift	Mabscott
509	Ninth	Beckley Coal Delivery Co.	939	Beckley	Slope	Beckley
510	Ninth	E. E. White Coal Co.	940	Nos. 1-2	Shaft	Glen White
511	Ninth	Beckley Coal & Coke Co.	941	Beckley Slope	Slope	Wickham
512	Ninth	Sullivan Coal & Coke Co.	942	Sullivan North & South	Drift	Sullivan
513	Ninth	Wood Peck Coal Co.	943	Wood Peck	Drift	Sullivan
514	Ninth	Cranberry Fuel Co.	944	Sprague	Slope	Sprague
515	Ninth	Cranberry Fuel Co.	945	Cranberry & Prosperity	Shaft	Cranberry
516	Ninth	New River Collieries Co.	946	Eccles Nos. 1-2	Shaft	Eccles
517	Ninth	New River Collieries Co.	947	Eccles Nos. 3-4	Shaft	Eccles
518	Ninth	New River Collieries Co.	948	Eccles No. 6	Shaft	Eccles
519	Ninth	New River Collieries Co.	949	Eccles No. 5	Shaft	Eccles
520	Ninth	Piney Mining Co.	950	Nos. 1-2	Drift	Stansford
521	Ninth	Piney Mining Co.	951	Piney No. 4	Drift	Riley
522	Ninth	Piney Mining Co.	952	Piney No. 3	Drift	Riley
523	Ninth	Lanark Coal Co.	953	Lanark No. 4	Drift	Lanark
524	Tenth	E. E. White Coal Co.	1001	No. 3	Drift	Stonesbury
525	Tenth	Gulf Smokeless Coal Co.	1002	Tams	Drift	Tams
526	Tenth	MacAlpin Coal Co.	1003	MacAlpin	Drift	MacAlpin
527	Tenth	Bailey Wood Coal Co.	1004	Bailey Wood	Drift	MacAlpin
528	Tenth	Pembert on Coal & Coke Co.	1005	Big Stick	Drift	Affinity
529	Tenth	The Gulf Coal Co.	1006	Gulf & Beaver	Drift	Hotcoal
530	Tenth	Lynwin Coal Co.	1007	Lynwin	Slope	Winding Gulf
531	Tenth	Winding Gulf Colliery Co.	1008	Winding Gulf Nos. 1-2	Drift	Winding Gulf
MERCER COUNTY.						
532	Tenth	Coaldale Coal & Coke Co.	1009	Coaldale	Drift	Coaldale
533	Tenth	Mill Creek Coal & Coke Co.	1010	East, West, W. Fork, Tug River	Drift	Coopers
534	Tenth	Buckeye Coal & Coke Co.	1011	Buckeye	Drift	Freeman
535	Tenth	Booth-Bowen Coal & Coke Co.	1012	Booth Bowen	Drift	Freeman
536	Tenth	Pocahontas Consolidated Coll. Co.	1013	Casswell Creeks-Hemlock	Drift	Freeman
537	Tenth	Pocahontas Consolidated Coll. Co.	1014	Sagamore	Drift	McComas
538	Tenth	Pocahontas Consolidated Coll. Co.	1015	West	Drift	Pocahontas
539	Tenth	Louisville Coal & Coke Co.	1016	Goodwill	Drift	Goodwill
540	Tenth	Go Frey Coal Co.	1017	Cephus	Drift	Crystal
541	Tenth	Crystal Coal & Coke Co.	1018	Crystal No. 1	Drift	Crystal
542	Tenth	Crystal Coal & Coke Co.	1019	Crystal No. 2	Drift	Crystal
543	Tenth	American Coal Co. of Allegheny Co.	1020	Crim Creek	Drift	McComas
544	Tenth	American Coal Co. of Allegheny Co.	1021	Pinnacle	Drift	McComas
545	Tenth	American Coal Co. of Allegheny Co.	1022	Piedmont	Drift	McComas
546	Tenth	The Thomas Coal Co.	1023	Thomas No. 1	Drift	McComas
547	Tenth	Thomas Coal Co.	1024	Thomas No. 2	Drift	Glatte
548	Tenth	Pawani Coal & Coke Co.	1025	Nos. 1-2	Drift	Matoaka
549	Tenth	Weyanoke Coal & Coke Co.	1026	Weyanoke & Elihu	Drift	Lowe
550	Tenth	Smokeless Coal & Coke Co.	1027	Smokeless	Drift	Hiawatha
551	Tenth	Hiawatha Coal & Coke Co.	1028	Hiawatha	Drift	Hiawatha
552	Tenth	Spring Coal Mining Co.	1029	Spring	Drift	Spring
553	Tenth	Wenonah Coal & Coke Co.	1030	Wenonah	Drift	Dott

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS WORKED AND THICKNESS, AND TOTAL NUMBER OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
John Branham	Tom Fisher	Coallurg	5-6	Fan	54	489
Wm. Wolf	Phillip C. Geyer	Coallurg	11-6	Fan	200	490
Wm. Wolf	Wilson Ascough	Coallurg	11-6	Fan	156	491
F. M. Lee	W. H. Cross	Fire Creek	4-	Fan	50	492
F. M. Lee	Edgar Hurt	Sewell	5-	Fan	40	493
A. Boyd	Wm. Hornsby	Fire Creek	3-6	Fan	57	494
A. Boyd	J. P. Donaldson	Fire Creek	3-6	Fan	47	495
E. E. Hendrichs	E. E. Hendrichson	Sewell	3-4	Furnace	9	496
Wm. Farrell	C. W. Todd	Sewell	7-	Fan	71	497
Jas. White	Frank Beard	Beckley	4-6	Fan	109	498
Jas. White	C. W. Sandridge	Beckley	4-6	Fan	82	499
Jas. White	J. A. Higgins	Beckley	3-10	Fan	20	500
Jas. White	M. D. Nidiffer	Beckley	5-	Fan	146	501
Jas. White	Wm. Hurt & W. M. Warwick	Beckley	4-	Fan	266	502
W. G. Caperton	F. H. Campbell	Beckley	3-10	Fan	43	503
G. A. Hinterlithner	I. J. Boyd	Sewell	4-10	Fan	97	504
C. G. Wood	R. F. Townsend	Sewell	4-6	Fan	142	505
W. R. Ballard	G. Stone	Sewell	4-10	Fan	73	506
C. G. Wood	P. McQuade	Beckley	5-	Fan	37	507
P. McQuade	D. J. Davies	Sewell	4-	Fan	64	508
W. E. Griffiths	John Burns	Sewell	3-1	Furnace	5	509
John Burns	Chas. Klouger	Beckley	5-6	Fan	174	510
F. McHugh	John Shears	Sewell	4-	Fan	148	511
W. E. Griffith	J. W. Miller	Beckley	4-10	Fan	153	512
J. A. Wood	W. Barton	Beckley	4-8	Furnace	12	513
L. Peck	James Fink	Sewell	4-	Fan	100	514
W. E. Griffith	Jas. Granger	Sewell	4-	Fan	46	515
W. E. Griffith	Geo. Scott	Sewell	4-	Fan	61	516
Thos. Petkoski	Thos. Lewis	Beckley	8-6	Fan	143	517
Thos. Petkoski	James Burdis	Sewell	5-	Fan	142	518
Thos. Petkoski	Joe Bishop	Beckley	8-6	Fan	134	519
Thos. Petkoski	F. Clark	Beckley	5-6	Fan	184	520
Jas. Stirrah	M. Campbell	Beckley	4-10	Fan	92	521
C. Binford	J. Kuhn	Sewell	4-6	Fan	69	522
C. Binford	Thos. Morgan, Sr.	Sewell	4-	Fan	51	523
John Burns	Jesse Blake	Beckley	5-	Fan	109	524
C. R. Stahl	Adam Lindsey	Beckley	8-	Fan	272	525
W. P. Tams	John Burns	Beckley	6-	Fan	214	526
Wm. Laing	C. B. Bryant	Beckley	5-6	Fan	109	527
J. C. Baker	C. H. Rhodes	Beckley	5-8	Fan	58	528
G. A. Hinterlithner	Wash Lilly	Beckley	5-	Fan & Furnace	69	529
Harvey Ingles	E. J. Flanagan	Beckley	5-	Fan	90	530
E. J. Flanagan	C. W. Bailey	Beckley	5-	Fan	115	531
W. J. Elgin						
C. E. Burnley	J. W. Johnson	Poca, No. 3	8-4	Fan	140	532
C. E. Burnley	J. W. Johnson	Poca, No. 3	8-	Fan	194	533
F. R. Hewitt	J. H. Williams	Poca, No. 3	5-6	Fan	185	534
Harry Bowen	B. English	Poca, No. 3	5-9	Fan	110	535
J. K. Whitehead	J. K. Whitehead	Poca, No. 3	9-	Fan	215	536
J. C. Baldwin	J. C. Baldwin	Poca, No. 3	6-	Fan	220	537
J. E. Jones	Jas. Heatherman	Poca, No. 3	10-	Fan	15	538
Jarius Collins	Geo. R. Scott	Poca, No. 3	4-8	Fan	122	539
E. V. Neal	E. V. Neal	Poca, No. 3	4-6	Furnace	17	540
W. J. Prichard	E. R. Foley	Poca, No. 3	4-6	Fan	150	541
W. J. Prichard	Geo. Smith	Poca, No. 3	4-6	Furnace	40	542
J. T. Walker	Jas. Hughes	Poca, No. 3	4-8	Fan	207	543
J. T. Walker	J. L. Dwese	Poca, No. 3	4-8	Fan	160	544
J. T. Walker	C. B. Irving	Poca, No. 3	4-10	Fan	86	545
J. T. Thomas	Evan Cockburn	Poca, No. 3	4-8	Fan	132	546
Jas. Thomas	Pat. Brennan	Poca, No. 3	4-6	Fan	40	547
J. C. Stras	G. C. Buschett	Poca, No. 3	4-5	Fan	70	548
H. L. Van Grump	J. S. Woodyard	Poca, No. 3	4-6	Fan	122	549
O. N. Moomow	O. N. Moomow	Poca, No. 3	5-	Fan	46	550
O. N. Moomow	H. G. Happersett	Poca, No. 3	5-	Fan	106	551
M. J. Sanders	J. L. Berdue	Poca, No. 3	4-4	Fan	86	552
D. H. Frazier	D. H. Frazier	Poca, No. 3	4-6	Fan	68	553

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
McDOWELL COUNTY.						
554	Tenth	Algoma Coal & Coke Co.	1031	Piney & Northfork	Drift	Algoma
555	Tenth	Elk Ridge Coal & Coke Co.	1032	Elk Ridge	Drift	Northfork
556	Tenth	Gilliam Coal & Coke Co.	1033	Gilliam	Drift	Gilliam
557	Tenth	Indian Ridge Coal & Coke Co.	1034	Indian Ridge	Drift	Worth
558	Tenth	Roanoke Coal & Coke Co.	1035	Roanoke	Drift	Worth
559	Tenth	Arlington Coal & Coke Co.	1036	Arlington	Drift	McDowell
560	Tenth	Greenbrier Coal & Coke Co.	1037	Greenbrier	Drift	McDowell
561	Tenth	McDowell Coal & Coke Co.	1038	McDowell	Drift	McDowell
562	Tenth	Ashland Coal & Coke Co.	1039	Ashland	Drift	Ashland
563	Tenth	Pocahontas Cons. Collieries Co. Inc.	1040	Cherokee	Drift	Ashland
564	Tenth	Pocahontas Cons. Collieries Co.	1041	Lick Branch	Drift	Switchback
565	Tenth	Pocahontas Cons. Collieries Co.	1042	Delta	Drift	Switchback
566	Tenth	Pocahontas Cons. Collieries Co.	1043	Shamokin	Drift	Maybeury
567	Tenth	Pocahontas Cons. Collieries Co.	1044	Norfolk	Drift	Maybeury
568	Tenth	Pocahontas Cons. Collieries Co.	1045	Angle	Drift	Maybeury
569	Tenth	Pocahontas Cons. Collieries Co.	1046	Rolfe	Drift	Worth
570	Tenth	Zenith Coal & Coke Co.	1047	Zenith Nos. 1-2	Drift	Crumpler
571	Tenth	Elkhorn Coal & Coke Co.	1048	Elkhorn	Drift	Maybeury
572	Eleventh	The King Coal Co.	1101	King	Slope	Kimball
573	Eleventh	The Tidewater Coal & Coke Co.	1102	Tidewater	Drift	Vivian
574	Eleventh	Bottom Creek Coal & Coke Co.	1103	Bottom Creek No. 1	Drift	Vivian
575	Eleventh	Bottom Creek Coal & Coke Co.	1104	Bottom Creek No. 2	Drift	Vivian
576	Eleventh	Jed Coal & Coke Co.	1105	Jed	Shaft	Jed
577	Eleventh	Black Wolf Coal & Coke Co.	1106	Black Wolf	Drift	Dearing
578	Eleventh	Page Coal & Coke Co.	1107	Nos. 1-2-3	Drift	Pageton
579	Eleventh	Central Pocahontas Coal Co.	1108	No. 1	Drift	Anawalt
580	Eleventh	Central Pocahontas Coal Co.	1109	No. 2	Drift	Anawalt
581	Eleventh	West Va.-Pocahontas Coal Co.	1110	Leekie Nos. 1-2	Drift	Leekie
582	Eleventh	Pocahontas Cons. Collieries Co.	1111	Pocahontas No. 6	Drift	Jenkins Jones
583	Eleventh	Cirrus Coal & Coke Co.	1112	No. 2	Slope	Big Four
584	Eleventh	The Middle States Coal & Coke Co.	1113	Helena	Shaft	Olmstead
585	Eleventh	Dixon-Pocahontas Fuel Co.	1114	South Side No. 2	Shaft	Dixapoca
586	Eleventh	Dixon-Pocahontas Fuel Co.	1115	North Side No. 1	Shaft	Dixapoca
587	Eleventh	Virginia Fuel Co.	1116	Virginia	Slope	Big Four
588	Eleventh	Peerless Coal & Coke Co.	1117	Peerless	Slope	Vivian
589	Eleventh	Empire Coal & Coke Co.	1118	Empire	Drift	Landgraff
590	Eleventh	Shawnee Coal & Coke Co.	1119	Shawnee	Drift	Eckman
591	Eleventh	Eureka Coal & Coke Co.	1120	Eureka	Drift	Eckman
592	Eleventh	Pulaski Iron Co.	1121	Nos. 1-2-3	Drift	Eckman
593	Eleventh	Keystone Coal & Coke Co.	1122	Nos. 1-2	Drift	Keystone
594	Eleventh	Lynchburg Coal & Coke Co.	1123	Lynchburg	Drift	Kyle
595	Eleventh	Powhatan Coal & Coke Co.	1124	Powhatan	Drift	Powhatan
596	Eleventh	Upland Coal & Coke Co.	1125	Upland No. 1	Drift	Elkhorn
597	Eleventh	Houston Coal & Coke Co.	1126	Houston No. 1	Drift	Elkhorn
598	Eleventh	Crozer Coal & Coke Co.	1127	Nos. 1-2	Drift	Elkhorn
599	Eleventh	Turkey Gap Coal & Coke Co.	1128	Turkey Gap	Drift	Emmis
600	Eleventh	United States Coal & Coke Co.	1129	No. 1	Shaft	Wilcox
601	Eleventh	United States Coal & Coke Co.	1130	No. 2	Drift	Gary
602	Eleventh	United States Coal & Coke Co.	1131	No. 3	Drift	Gary
603	Eleventh	United States Coal & Coke Co.	1132	No. 4	Drift	Thorpe
604	Eleventh	United States Coal & Coke Co.	1133	No. 5	Drift	Thorpe
605	Eleventh	United States Coal & Coke Co.	1134	No. 6	Drift	Gary
606	Eleventh	United States Coal & Coke Co.	1135	No. 7	Drift	Elbert
607	Eleventh	United States Coal & Coke Co.	1136	No. 8	Drift	Elbert
608	Eleventh	United States Coal & Coke Co.	1137	No. 9	Drift	Elbert
609	Eleventh	United States Coal & Coke Co.	1138	No. 10	Drift	Gary
610	Eleventh	United States Coal & Coke Co.	1139	No. 11	Drift	Thorpe
611	Eleventh	United States Coal & Coke Co.	1140	No. 12	Drift	Anawalt
612	Twelfth	Pocahontas Smokeless Coal Co.	1201	Pocahontas Smokeless	Drift	Welch
612	Twelfth	Hemphill Colliery Co.	1202	Hemphill	Drift	Welch
614	Twelfth	Welch Coal & Coke Co.	1203	Welch	Drift	Welch
615	Twelfth	Oregon Coal Co.	1204	Nos. 2-3	Drift	Hemphill
616	Twelfth	Standard Pocahontas Coal Co.	1205	Standard	Shaft	Welch
617	Twelfth	Pando Coal Company	1206	Pando Nos. 1-2	Drift	Pando
618	Twelfth	Superior Pocahontas Coal Co.	1207	Blackstone	Drift	Davy

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total In use Employees	No.
Wm. Beury	Jno. F. Logan	Poca. No. 3	6—	Fan	125	554
L. E. Tierney	M. Creakman	Poca. No. 3	7—	Fan	150	555
J. C. Campbell	C. Hughes	Poca. No. 3	5—	Fan	150	556
A. D. Rice	Jesse Hackworth	Poca. No. 3	4— 8	Fan	119	557
Henry Brooke	W. L. Marshall	Poca. No. 3	5— 2	Fan	109	558
Morris Watts	A. Hall	Poca. No. 3	5—	Fan	112	559
Jairus Coolins	W. A. Otey	Poca. No. 3	6—	Fan	110	560
H. W. Rawson	Allen Hambrick	Poca. No. 3	5— 6	Fan	170	561
T. O'Neil	H. Honaker	Poca. No. 3	4— 9	Fan	167	562
Jas. Ellwood Jones	W. T. Heatherman	Poca. No. 3	5— 7	Fan	210	563
Jas. Ellwood Jones	R. S. Whitehead	Poca. No. 3	8—	Fan	243	564
Jas. Ellwood Jones	R. S. Whitehead	Poca. No. 3	8—	Fan	218	565
Jas. Ellwood Jones	R. S. Whitehead	Poca. No. 3	8—	Fan	233	566
Jas. Ellwood Jones	R. S. Whitehead	Poca. No. 3	9—	Fan	243	567
Jas. Ellwood Jones	R. S. Whitehead	Poca. No. 3	7—	Fan	173	568
Jas. Ellwood Jones	R. S. Whitehead	Poca. No. 3	6— 6	Fan	218	569
A. D. Rice	T. B. White	Poca. No. 3	4— 8	Fan	120	570
R. S. Ord	J. R. Little	Poca. No. 3	7—	Fan	166	571
S. B. Campbell	Dick Matthews	Poca. No. 3	6—	Fan	171	572
S. B. Campbell	J. O. Smith	Poca. No. 3	6—	Fan	153	573
G. S. Patterson	John Maurice	Poca. No. 3	6—	Fan	132	574
G. S. Patterson	C. W. Dillard	Poca. No. 3	5— 9	Fan	75	575
O. M. Knouff	P. Doolan	Poca. No. 3	5— 3	Fan	56	576
S. G. Brally	Tom Scott	Poca. Nos. 3 & 4	6—	Fan	63	577
Sam Evans	J. Gillmore	Poca. No. 3	8—	Fan	268	578
H. T. Graham	Jas. Knox	Poca. No. 3	8—	Furnace	25	579
H. T. Graham	J. S. Money	Poca. No. 3	5— 6	Furnace	19	580
W. Beale	W. Smith	Poca. No. 3	8— 2	Fan	146	581
Jas. Ellwood Jones	C. W. Atkinson	Poca. No. 3	9—	Fan	41	582
Jas. Ellwood Jones	T. T. Sturm	Poca. Nos. 3 & 4	5—	Fan	160	583
D. E. Evans	R. Franklin	Poca. No. 4	5— 6	Fan	159	584
H. Pinkney	John Bulmer	Poca. No. 4	5—	Fan	52	585
H. Pinkney	T. E. Weldon	Poca. No. 3	5— 6	Fan	35	586
J. A. Staton	J. Kippingier	Poca. No. 3	5— 8	Fan	29	587
R. Luther	T. Barrett	Poca. No. 3	6—	Fan	1— 2	588
W. D. Ord	D. Ferguson	Poca. No. 3	5— 10	Fan	250	589
Morris Watts	M. A. Sexton	Poca. No. 3	6— 9	Fan	205	590
L. Tierney	R. Mathis	Poca. No. 3	7—	Fan	180	591
Floyd Cunningham	J. M. Shank	Poca. No. 3	7—	Fan	327	592
F. B. Steele	Jas. Smith & T. F. Smith	Poca. No. 3	6—	Fan	300	593
L. Tierney	Thos. Fitzsimmons	Poca. No. 3	12—	Fan	180	594
A. Dalton	H. Reid	Poca. No. 3	7—	Fan	214	595
John Lineolt	J. Grantham	Poca. No. 3	7—	Fan	190	596
Benj. Lewis	C. Kershaw	Poca. No. 3	8—	Fan	270	597
E. Evans	Joe McCrickard	Poca. No. 3	8—	Fan	244	598
E. McQuail	J. Johnson	Poca. No. 3	8— 2	Fan	198	599
C. M. Gates		Poca. No. 3 & 4	6—	Fan	2	600
J. M. Tulley	S. O. Jones	Poca. No. 4	6—	Fan	301	601
J. M. Harman	John Gates	Poca. No. 4	4— 10	Fan	190	602
A. Harris	A. Hahn	Poca. No. 3	6—	Fan	239	603
T. A. Wood	G. Cameron	Poca. No. 3	7—	Fan	139	604
Neil Friel	S. Graham	Poca. No. 4	6—	Fan	250	605
F. Kearns	J. Bor th	Poca. No. 4	7—	Fan	242	606
F. Kearns	G. Williams	Poca. No. 4	6—	Fan	129	607
W. Harding	D. R. Gates & T. McFarland	Poca. No. 4	7— 6	Fan	435	608
J. Graham	J. V. Rhodes	Poca. No. 3	4— 6	Fan	278	609
I. Dunn	W. Morgan & J. Langton	Poca. Nos. 3 & 4	5— 3	Fan	209	610
H. Graham	J. Mullen	Poca. No. 3	8— 3	Fan	149	611
J. Taylor	J. Taylor	Poca. No. 6	4— 8	Fan	80	612
F. Baxter	W. Spicer	Poca. No. 6	4— 6	Fan	32	613
F. Baxter	Geo. Castle	Poca. No. 6	4— 4	Fan	60	614
T. Brazeal	Wm. Quesenbury	Poca. No. 6	3— 8	Fan	113	615
R. Simpson	Jas. Dillard	Poca. No. 3	5—	Fan	41	616
C. Biddison	C. Biddison	Poca. Nos. 6 & 7	3— 6	Fan	37	617
F. Cook	Frank Wright	Poca. No. 6	3— 6	Fan	50	618

DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA

FOR THE YEAR ENDING JUNE 30TH, 1912.

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
MCDOWELL COUNTY—Con.						
619	Twelfth	Superior Pocahontas Coal Co.	1208	Davy Crockett	Drift	Davy
620	Twelfth	Superior Pocahontas Coal Co.	1209	Helena No. 3	Drift	Davy
621	Twelfth	Superior Pocahontas Coal Co.	1210	Cietus No. 1	Drift	Davy
622	Twelfth	J. B. B. Coal Co.	1211	No. 1	Drift	Twin Branch
623	Twelfth	J. B. B. Coal Co.	1212	No. 2	Drift	Twin Branch
624	Twelfth	J. B. B. Coal Co.	1213	No. 3	Drift	Twin Branch
625	Twelfth	J. B. B. Coal Co.	1214	No. 4	Drift	Twin Branch
626	Twelfth	Solvay Collieries Co.	1215	Marytown Plant	Drift	Marytown
627	Twelfth	Solvay Collieries Co.	1216	Big Sandy	Drift	Big Sandy Plant
628	Twelfth	Vaughan Coal & Coke Co.	1217	Vaughan	Drift	Roderfield
629	Twelfth	Flanagan Coal Co.	1218	Flanagan No. 1	Drift	Roderfield
630	Twelfth	Davy-Pocahontas Coal Co.	1219	Nos. 1-2	Drift	Roderfield
631	Twelfth	Premier Pocahontas Collieries Co.	1220	Nos. 1-2-3-4	Drift	Premier
632	Twelfth	Virginia Pocahontas Coal Co.	1221	Nos. 1 East and West	Drift	Coalwood
633	Twelfth	Virginia Pocahontas Coal Co.	1222	No. 2 East and West	Drift	Coalwood
634	Twelfth	Virginia Pocahontas Coal Co.	1223	Nos. 3-4	Drift	Coalwood
635	Twelfth	Virginia Pocahontas Coal Co.	1224	No. 6 East and West	Drift	Coalwood
636	Twelfth	Virginia Pocahontas Coal Co.	1225	Caretta	Slope	Yukon
637	Twelfth	The Columbus Pocahontas Coal Co.	1226	Columbus	Drift	Jager
638	Twelfth	Imperial Pocahontas Coal Co.	1227	Imperial	Drift	Avondale
639	Twelfth	Reynolds Mining Co.	1228	Reynolds	Drift	Lex
640	Twelfth	Hurricane Branch Coal Co.	1229	Hurricane Branch	Drift	Lex
641	Twelfth	Henrietta Pocahontas Coal Co.	1230	Henrietta	Drift	Bartley
642	Twelfth	Flat Top Coal Co.	1231	Flat Top of Thomas	Slope	English
643	Twelfth	Dry Fork Colliery Co.	1232	Dry Fork	Slope	Yukon
644	Twelfth	Buchanan Coal Co.	1233	Buchanan	Drift	Yukon
645	Twelfth	Yukon Pocahontas Coal Co.	1234	Yukon	Drift	Yukon
646	Twelfth	Harrman Coal Co.	1235	No. 1	Drift	War
647	Twelfth	War Creek Coal Co.	1236	No. 1	Drift	War
648	Twelfth	Johns Branch Coal Co.	1237	No. 1	Drift	War
649	Twelfth	Pocahontas Domestic Coal Co.	1238	Scorpion	Drift	War
650	Twelfth	Excelsior Pocahontas Coal Co.	1239	Excelsior	Drift	War
651	Twelfth	New River & Poca. Cons. Coal Co.	1240	Nos. 1, Berwind	Drift	Berwind
652	Twelfth	New River & Poca. Cons. Coal Co.	1241	Berwind No. 2	Drift	Berwind
653	Twelfth	New River & Poca. Cons. Coal Co.	1242	Berwind No. 3	Drift	Berwind
654	Twelfth	New River & Poca. Cons. Coal Co.	1243	Berwind No. 4	Drift	Berwind
655	Twelfth	Lathrop Coal Co.	1244	Lathrop	Drift	Panther
656	Twelfth	Mohawk Coal & Coke Co.	1245	Mohawk	Drift	Mohawk
MINGO COUNTY.						
657	Twelfth	Margaret Mining Co.	1246	Margaret	Drift	War Eagle
658	Twelfth	War Eagle Coal Co.	1247	Mephisto	Drift	War Eagle
659	Twelfth	War Eagle Coal Co.	1248	Pappoose	Drift	War Eagle
660	Twelfth	Glen Alum Coal Co.	1249	Nos. 1-2-3	Drift	Glen Alum
661	Twelfth	Thacker Coal & Coke Co.	1250	No. 10	Drift	New Thacker
662	Twelfth	Thacker Coal & Coke Co.	1251	Nos. 11-12-13-14	Drift	New Thacker
663	Twelfth	Thacker Coal & Coke Co.	1252	Nos. 2-3-6-7-8-9	Drift	New Thacker
664	Twelfth	Red Jacket Cons. Coal & Coke Co.	1253	Grapevine	Drift	Edgarton
665	Twelfth	Red Jacket Cons. Coal & Coke Co.	1254	Lick Fork	Drift	Thacker
666	Twelfth	Red Jacket Cons. Coal & Coke Co.	1255	Rutherford	Drift	Red Jacket
667	Twelfth	Red Jacket Cons. Coal & Coke Co.	1256	Red Jacket	Drift	Red Jacket
668	Twelfth	Red Jacket Cons. Coal & Coke Co.	1257	Mitchell Branch	Drift	Red Jacket
669	Twelfth	Red Jacket Jr. Coal Co.	1258	Nos. 1-2	Drift	Red Jacket
670	Twelfth	Magnolia Coal & Coke Co.	1259	Magnolia	Drift	Red Jacket
671	Twelfth	Maroon Coal Co.	1260	Maroon	Drift	Matawan
672	Twelfth	Great Bend Coal Co.	1261	Great Bend	Drift	Spring
673	Twelfth	The White Star Mining Co.	1262	White Star	Drift	Merrimac
674	Twelfth	Crystal Block Coal & Coke Co.	1263	Winifrede No. 1	Drift	Rawl
675	Twelfth	Sycamore Coal Co.	1264	Cinderella	Drift	Cinderella
676	Twelfth	Superior Thacker Coal & Coke Co.	1265	Williamson No. 1	Drift	Williamson
677	Twelfth	Williamson Coal & Coke Co.	1266	Winifrede	Drift	Williamson
678	Twelfth	E. L. Sternberger Coal Co.	1267	Sternberger	Drift	Goodman
679	Twelfth	Chattaroy Colliery Co.	1268	Chattaroy	Drift	Chattaroy

NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.

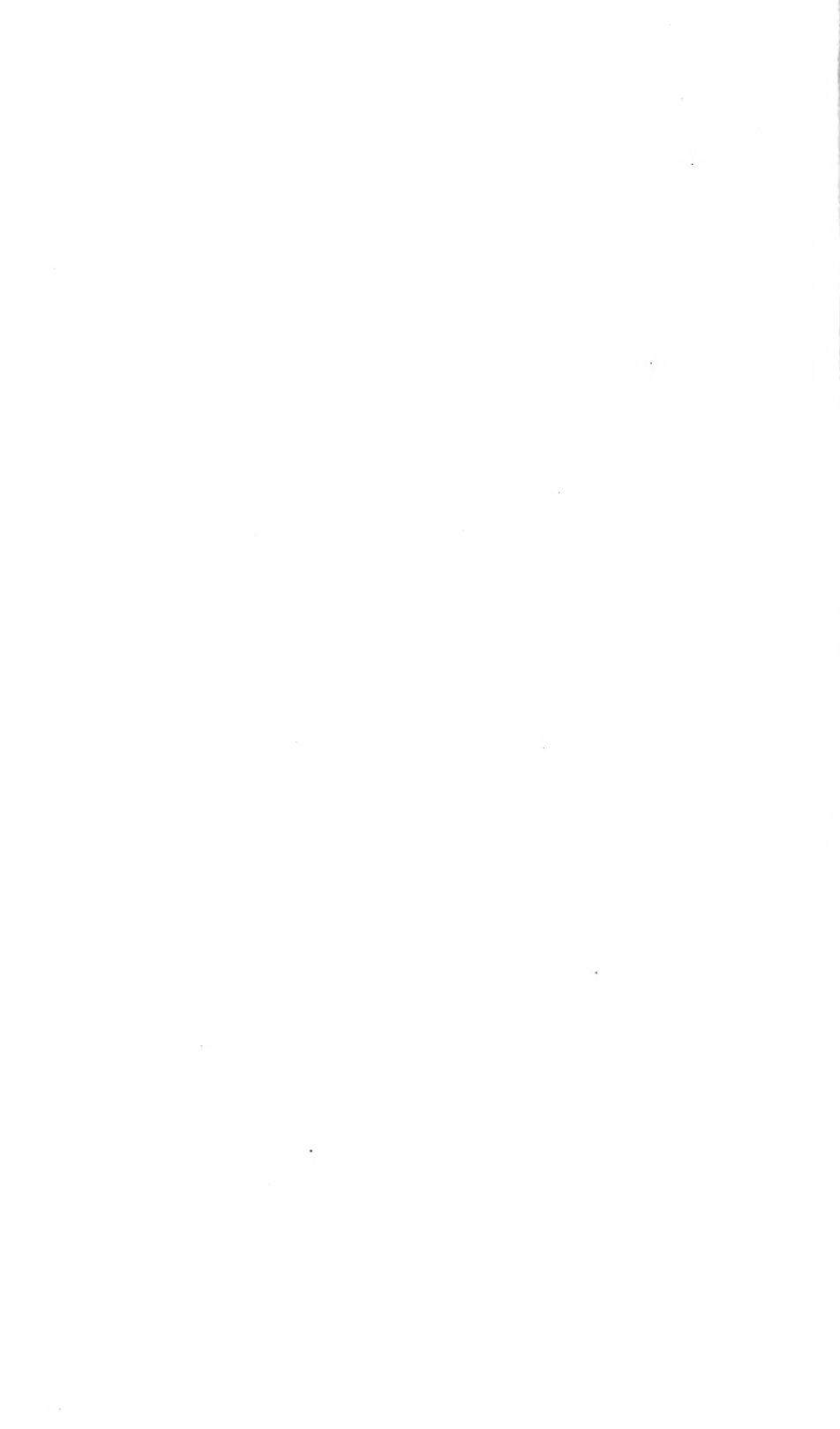
NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
F. Cook	Milt Cline	Davy	3—	Fan	53	619
F. Cook	Lane Hubbard	Davy	3—	Fan	35	620
F. Cook	Geo. Altizer	Davy	3—	Fan	21	621
F. Palmer	R. Stewart	Davy	3— 6	Fan	91	622
F. Palmer	Thos. Melvin	Davy	3— 6	Fan	79	623
F. Palmer	Geo. Cary	Davy	3— 6	Fan	75	624
F. Palmer	P. A. Grant	Davy	3— 6	Fan	104	625
W. Lilly	E. D. Walters	Sewell	3— 9	Fan	155	626
W. Lilly	Frank Huffman	Sewell	3— 7	Fan	112	627
D. Woody	A. D. Short	Davy	4—	Fan	43	628
J. P. Flanagan	M. Finley	Davy	6—	Fan	31	629
P. A. Grady	T. L. Booth	War Creek & Davy	5—	Fan	50	630
J. C. Saunders	T. N. Daugherty, H. Fisher G. Ring, H. Gomis	Welch	3— 8	Fan	150	631
Geo. Marrs	M. Simpkins	Welch	4—	Fan	96	632
Geo. Marrs	J. Vance	Welch	4—	Fan	48	633
Geo. Marrs	M. Simpkins	Welch	4—	Fan	57	634
Geo. Marrs	P. Longmire	Sewell	4—	Fan	78	635
W. R. Robinson	W. White	Was Creek	3— 10	Fan	77	636
J. Bradfute	Harvey Rife	Red Ash	2— 8	Furnace	13	637
J. Flanagan	E. Connelly	Welch	3— 6	Furnace	4	638
H. Shepherd	G. Cline	Welch	3—	Fan	36	639
J. Johnson	J. Huffard	Poca, No. 6	3—	Furnace	8	640
C. Botsford	J. Strickler	Davy	3—	Fan	3	641
J. Evans	J. Evans	War Creek	3— 6	Fan	39	642
G. Lane	Jake Henry	War Creek	6—	Fan	84	643
J. Charles	M. Hurley	War Creek	3— 2	Fan	20	644
H. Myers	H. Weddington	War Creek	5— 6	Fan	40	645
W. Brooks	H. Roberts	War Creek	4—	Furnace	22	646
W. Brooks	C. Blerins	War Creek	3— 6	Furnace	12	647
W. Brooks	H. Roberts	War Creek	— 6	Furnace	24	648
J. Nash	W. Strickler	War Creek	4— 2	Furnace	50	649
J. Huddleston	G. Shelton	War Creek	6—	Fan	51	650
W. Barriek	Jas. Reynolds	Poca, No. 3	4—	Fan	196	651
W. Barriek	P. Drinan	Poca, No. 3	4—	Fan	56	652
W. Barriek	J. Shorthouse	Poca, No. 3	4—	Fan	164	653
W. Barriek	Jas. Reynolds	Poca, No. 3	4—	Fan	54	654
A. Leekie	J. Davis	Eagle	6— 5	Fan	45	655
Jas. Montgomery	Jas. Montgomery	Eagle	5—	Fan	86	656
T. A. Shewey	J. Brunfield	War Eagle No. 1	5—	Fan	40	657
G. Coffey	S. Barnett	War Eagle	5— 6	Fan & Fur- nace	50	658
G. Coffey	J. K. Coffey	War Eagle	5— 6	Fan & Fur- nace	60	659
Morris Watts	J. Gost	Thacker	6—	Fan	220	660
J. Lewis	H. Cox	Thacker	7—	Furnace	18	661
J. Lewis	Chas. Sigmon	Thacker	4— 6	Fan	63	662
J. Lewis	J. Williams & J. Masing	Thacker	5—	Fan	1 0	663
W. Wilson	Floyd Adkins	Thacker	7— 3	Furnace	26	664
W. Wilson	Watt Stevens	Thacker	6— 6	Natural	33	665
W. Wilson	E. Boggs	Red Jacket	4— 6	Fan	51	666
W. Wilson	Geo. Boyd	Red Jacket	4— 6	Fan	46	667
W. Wilson	John Foit	Red Jacket	4— 10	Fan	258	668
W. Wilson	H. C. Boyd	Red Jacket & Thacker	4— 8	Fan	176	669
M. Riblett	E. Simpkins	Red Jacket	4—	Fan	33	670
J. Williams	Sherman McCall	Cedar Grove	3— 8	Fan	42	671
J. Williams	E. Preston	Cedar Grove	3— 8	Fan	24	672
C. Parcoll	R. Keesee	Alma	4—	Fan	44	673
J. Horne	Bent Mann	Winifrede	6— 6	Fan	48	674
E. Thomas	J. Clarke	Winifrede	5— 2	Fan	83	675
H. Randolph	Bascom Price	Thacker	4— 4	Natural	19	676
J. Jones	H. Kelly	Winifrede	5— 6	Furnace	84	677
O. Gould	C. Anderson	Wini rede	6—	Fan	63	678
E. W. Freeman	Hugh Wellman	Winifrede	5— 6	Fan	46	679

*DIRECTORY OF THE MINES IN THE STATE OF WEST VIRGINIA
FOR THE YEAR ENDING JUNE 30TH, 1912.*

No.	District	NAME OF COMPANY	Series No.	NAME OF MINE	Kind of Opening	POST OFFICE ADDRESS
MINGO COUNTY—Con.						
680	Twelfth	The Buffalo Collieries Co.	1269	Buffalo	Drift	Chattaroy
681	Twelfth	Howard Junior Coal Co.	1270	Howard Junior	Drift	Chattaroy
682	Twelfth	Howard Colliery Co.	1271	Howard Mine	Drift	Chattaroy
683	Twelfth	Mary Helen Coal Co.	1272	Mary Helen	Drift	Hatfield
684	Twelfth	Gray Eagle Coal Co.	1273	Gray Eagle	Shaft	Kermit
685	Twelfth	James R. Shanklin Coal Co.	1274	Naugatuck	Drift	Blocton
WAYNE COUNTY.						
686	Twelfth	East Lynn Coal Co.	1275	Sagamore	Drift	East Lynn

*NAME OF SUPERINTENDENT, NAME OF MINE FOREMAN, SEAMS
WORKED AND THICKNESS, AND TOTAL NUMBER
OF INSIDE EMPLOYEES.*

NAME OF SUPERINTENDENT	NAME OF MINE FOREMAN	Name of Coal Bed Worked	Thickness	Kind of Ventilation	Total Inside Employees	No.
S. V. Preston.....	D. S. Holmes.....	Winifrede	4—4	Fan.....	110	680
W. S. Esler.....	W. S. Esler.....	Winifrede	5—6	Fan.....	75	681
W. S. Esler.....	John Ridwell.....	Winifrede	6—	Fan.....	98	682
G. T. Farrow.....	G. T. Farrow.....	Winifrede	4—6	Fan.....	55	683
S. W. Perry.....	L. J. Blankenship.....	No. 2 Gas	4—6	Furnace..	50	684
S. W. Perry.....	J. F. Bowles.....	Coalburg	4—10	Fan.....	95	685
Okey Loyd.....	Okey Loyd.....	Kittanning..	5—	Furnace..	51	686



THIRD SECTION



CONDITION OF MINES

R E P O R T S

OF

DISTRICT MINE INSPECTORS

1912

Personnel of the Department of Mines.

John Laing, Chief of Department of Mines, Charleston.

FIRST DISTRICT.

Karl F. Schoew, Inspector, Fairmont.

SECOND DISTRICT.

F. E. Parsons, Inspector, Clarksburg.

THIRD DISTRICT.

L. D. Vaughn, Inspector, Grafton.

FIFTH DISTRICT.

Earl A. Henry, Inspector, Clifton.

SIXTH DISTRICT.

Bonner H. Hill, Inspector, Chelyan.

SEVENTH DISTRICT.

James Martin, Inspector, Charleston.

EIGHTH DISTRICT.

R. Y. Muir, Inspector, Hinton.

NINTH DISTRICT.

Lance B. Holliday, Inspector, Beckley.

TENTH DISTRICT.

Arthur Mitchell, Inspector, Bluefield.

ELEVENTH DISTRICT.

William Nicholson, Inspector, Bluefield.

TWELFTH DISTRICT.

P. A. Grady, Inspector, Williamson.

MINE INSPECTION DISTRICTS.

FIRST DISTRICT.

Counties of *Marion*, *Wetzel*, *Tyler* and *Pleasants*.

SECOND DISTRICT.

Counties of *Harrison*, *Lewis*, *Upshur*, *Nicholas*, *Greenbrier*, *Webster*, *Dodridge* and *Ritchie*.

THIRD DISTRICT.

Counties of *Barbour* (Part), *Monongalia*, *Preston* and *Taylor*.

FOURTH DISTRICT.

Counties of *Grant*, *Mineral*, *Randolph*, *Tucker*, *Barbour* (Part), *Hampshire*, *Hardy*, *Pendleton*, *Pocahontas*, *Morgan*, *Berkeley* and *Jefferson*.

FIFTH DISTRICT.

Counties of *Branton*, *Clay*, *Gilmer*, *Fayette* (Part), *Kanawha* (Part), *Mason*, *Putnam*, *Brooke*, *Marshall*, *Ohio*, *Calhoun*, *Wirt*, *Jackson* and *Rome*.

SIXTH DISTRICT.

Counties of *Kanawha* (Part), *Raleigh* (Part), *Boone* and *Logan*.

SEVENTH DISTRICT.

Counties of *Fayette* (Part), *Kanawha* (Part) and *Nicholas* (Part).

EIGHTH DISTRICT.

Counties of *Fayette* (Part) and *Raleigh* (Part).

NINTH DISTRICT.

Counties of *Fayette* (Part) and *Raleigh* (Part).

TENTH DISTRICT.

Counties of *Mercer*, *McDowell* (Part), *Raleigh* (Part), *Summers* and *Monroe*.

ELEVENTH DISTRICT.

Counties of *McDowell* (Part) and *Wyoming*.

TWELFTH DISTRICT.

Counties of *Mingo*, *Wayne*, *McDowell* (Part), *Lincoln* and *Cabell*.
(**Italicized** Counties are those in which coal mines are operated).

*THE FOLLOWING IS A GENERAL SUMMARY OF THE VARIOUS
MINING DISTRICTS FOR THE YEAR ENDING JUNE 30TH, 1912.*

District.	No. of Openings.	No. of Persons Killed.	EMPLOYES.									Production of	
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.		
First.....	34	15	1,307	1,212	388	1,009	3,976	869	59	928	4,904	4,833,652	81,117
Second....	76	15	1,053	1,524	474	1,156	4,217	921	3	924	5,141	4,704,985	3,113
Third.....	45	11	1,218	741	175	584	2,718	464	156	620	3,338	2,734,710	259,952
Fourth....	48	16	1,953	70	29	682	2,731	425	128	553	3,287	2,753,156	160,223
Fifth.....	76	24	1,654	3,673	575	1,616	7,418	973	258	1,231	8,649	6,182,349	228,291
Sixth.....	88	31	1,679	3,404	688	1,710	5,181	1,190	.....	1,190	6,371	7,215,988	.....
Seventh....	51	11	1,195	985	239	714	3,103	609	21	630	3,733	2,292,745	14,226
Eighth....	38	30	2,177	588	211	910	3,877	648	121	742	4,619	3,514,411	70,009
Ninth.....	53	29	2,524	771	251	1,290	4,855	760	53	813	5,668	4,953,916	57,951
Tenth.....	54	59	3,631	1,503	179	1,566	6,579	1,339	658	1,997	8,537	7,334,553	464,553
Eleventh..	16	117	3,322	1,858	242	1,365	6,867	1,555	792	2,347	9,214	7,855,916	615,115
Twelfth...	66	57	1,581	1,123	391	1,539	5,047	968	45	1,013	6,050	5,936,287	38,287
Total....	678	466	21,879	17,752	3,945	47,277	56,853	10,461	2,267	12,758	69,611	59,284,774	1,992,667

FIRST DISTRICT.

GENERAL SUMMARY FOR THE FIRST MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

County.	No. of Openings.	No. of Persons Killed.	EMPLOYES.									Production of	
			Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,000 lbs.
Marion...	34	15	1,307	1,212	388	1,069	3,976	869	59	928	4,904	4,833,652	81,147
Total ..	34	15	1,307	1,212	388	1,069	3,976	869	59	928	4,904	4,833,652	81,147

OFFICE OF THE DISTRICT MINE INSPECTOR.

Fairmont, W. Va. September 30, 1912.

HON. JOHN LAING,

Chief of Department of Mines,

Charleston, West Virginia.

DEAR SIR:—In accordance with the requirements of Section 3 of the Mining Law, I respectfully submit the following report of the condition and progress of the mines in the First District, for the fiscal year ending June 30th, 1912:

The First District embraces all mines in Marion county.

109 inspections, 39 special visits and 52 mine air analyses were made by me and reported to your office.

The majority of the mines in this District are large, and it requires several days for each inspection. More attention has been given to the thoroughness than to the number of inspections made.

All the openings are made in the Pittsburg Seam except the Parker Run mine, the latter having made developments in the Sewickley seam. The roof in the Pittsburg Seam is of such nature that constant attention by means of timbering is necessary. The writer has constantly urged the mine officials to keep all working places well timbered.

The regulation of air has received special attention by the operating companies and the writer, and in order to properly adjust the mine air chemical tests of same were made periodically in gaseous and non-gaseous mines, for the purpose of determining whether ample ventilation had been provided to dilute the gases which were being liberated, and whether the air entering the various splits could be so adjusted that each split, in gaseous mines, could receive its

Is this mine worked by shaft? Drift or slope?.....
 Maximum percentage of CH₄ (Methane)..... .6% permissible in any current where locked safety lamps and permissible explosives are being used.
 Maximum percentage of CH₄ (Methane)..... .3% permissible in any current where open lights and black powder are being used.
 CH₄ (Methane) in Main Return Air.....% Total CH₄ per min.....Cu. Ft.
 Air required per minute to dilute CH₄ and CO₂ properly.....Cu.
 SPLIT No.
 Method of Humidifying
 Is humidity introduced in day time?.....and at night.....
 Water entering mine with intake air.....Gallons per min.....in 24 hrs.
 Water leaving mine with Return air.....Gallons per min.....in 24 hrs.
 Gain of waterGallons in 24 hrs.
 Loss of waterGallons in 24 hrs.
 Is the roof dry or wet?.....Fan blowing.....or exhausting?.....
 Mine working.....Or idle?.....
 FAIRMONT.....191.....
 Signed.....
 Mine Inspector 1st District.

Special visits were made for the purpose of investigating fatal and serious accidents, and ascertaining as to whether my recommendations to prevent such accidents were complied with. To the honor of the operating companies, I am glad to say that there has been no evidence of a disposition on their part to trifle with the requirements of the mining law, or to ignore the recommendations made by me. In every instance, the precautions recommended were complied with.

As an additional precaution for the prevention of accidents, the following recommendation, under date of May 9th, 1911, was sent to all operating companies in the First District:

"Mr. John Laing, Chief of Department of Mines, has issued an order to 'All District Mine Inspectors' to enforce the following:

That the fans in non-gaseous mines be run regularly, or at least long enough before the men enter the mine to clear it thoroughly of the gases that were left over from the effect of powder, etc., of the night before.

Further, wherever gas is known to be generated in a mine at all, regardless of the minimum amount that may be liberated, a fire boss must be employed, so that the mines will be inspected and made safe before the miners are permitted to go to work.

Further, in all mines, whether gaseous or non-gaseous, and where the Inspector finds that the requirements of the mining laws are not fully complied with, in regard to "properly watering down the coal dust," no shooting of any kind or character will be permitted while the men are in the mines, permissible explosives will only be allowed to be used for blasting, and the employment of expert shot firers will be insisted upon.

Further, we urgently ask that you give positive instructions to your subordinates, that no gases be allowed to accumulate in any parts of your mines at any time, that the coal dust be kept thoroughly watered down, that shooting coal off the solid and overcharging blasts be strictly prohibited and that clay tamping be used exclusively.

You will fully realize the benefits your company will derive by complying

with the order of the Chief of Department of Mines, as his order is meant as a protection to your property, as well as to the men in your employ.

The writer recommends that you give your prompt and continued attention to the requirements of this recommendation."

Six months later, as a still further precaution against accidents, the following recommendation was sent to all operators, under date of November 22, 1911:

"It is necessary that from now on, as the cold weather is setting in, the following be complied with closely:

Keep all parts of the mines well ventilated.

Allow no explosive gas to accumulate in any parts of the mines.

Keep the coal dust properly watered down at all times, and do not be satisfied with having only some parts of the mines wet,—keep it all wet.

Have the coal properly undercut.

For tamping shots, use clay exclusively.

Have all places properly timbered, and do not be sparing of the timber.

Keep the electrical equipment in safe condition.

Prohibit the men from entering working places until the powder smoke has cleared away, as it is explosive and poisonous.

By all means, provide for ample fire protection within your mines, as well as at the entrance of it. Often a barrel of water kept near the face of a heading to fight fires with will save loss of life and property.

I feel sure, if you will make every possible effort to carry out these recommendations, you will materially add to the safety of the miners and your property during the coming winter.

At this, the end of our fiscal year, it is my pleasure to report that, due to carefulness of all parties concerned in the operation of mines in my district, the general conditions are good, and the mines will bear close inspection. Further, that not a man has been killed or burned by a gas or coal dust explosion, and that fatal and non-fatal accidents have been reduced over the previous year.

Fatal and non-fatal accident reports have been furnished promptly by the operating companies as required by law.

A number of visits were made to Miners Hospitals No. 3, of Fairmont, and it was observed that the very best medical attention was given the injured miners, for which credit is due Dr. McDonald and his able staff.

Mine operators and miners have again suffered financial loss, due to a general business depression. It appears that a sluggish market, keen competition, shortage of railroad cars and laborers, in connection with an incomplete organization, were the causes. Several mines have been idle for several months, but have resumed operation. Indications point strongly towards a more prosperous year in the coal industry. All shipments are made by rail except one, which is made by river.

Four new mines have opened,—the Consolidation No. 81, Morgan, Junior, and the James. The latter, however, has not as yet come under the jurisdiction of the Mine Department, as less than five men were employed at the close of our fiscal year. Many modern improvements have been made, in ventilation, watering coal dust, haulage, hoisting and other electrical and compressed air equipments, miners' homes, coke ovens, reservoirs, etc.

It is gratifying to note that since you required Mine Foreman and Fire Bosses to pass an examination, improvements resulting therefrom are very per-

ceptible, in the conditions of the mines. The men who fill such responsible positions are possessing now the proper knowledge of the Mining Law, and know the condition in which mines in their charge should be maintained.

I wish to add further, that as coal mining becomes more complex, competition more severe, and the call for experts more insistent, there is a great demand for schools furnishing such training as will enable their graduates to come to their work with the least loss of time, and with the greatest possible efficiency. The call for technical schools grows more imperative each year. The time is at hand when this matter should receive more intelligent attention. "Continuation Schools" or "Miners Schools" should be maintained by the State for the purpose of aiding young people to continue, during the hours they are not at work, the studies they pursued in the day schools, or to take those studies which will aid them in their work. These schools should be taught by specially trained teachers, and the scientific and practical phases of the mining subjects fully presented and illustrated. It would prove to be one of the best financial investments our State has made in the past.

Sufficient Legislation has not been enacted for the protection of miners and mines from the ever present danger of gas exuding from gas wells into the mines. This matter should receive prompt attention from our law making bodies.

In connection with my regular duties, I have attended State and National Mine Inspectors' meetings, assisted in conducting mine foreman's and fire bosses's examinations, and made joint inspections in other districts when requested by you to do so.

A strike among the miners, of one week's duration at once mine, for an increase in wages, was settled to the satisfaction of the parties concerned.

Both permissible explosives and black blasting powders are being used for blasting the coal. However, the largest tonnage is being mined with permissible explosives.

To the United States Bureau of Mines, under the able direction of Dr. J. A. Holmes and his able assistants, credit is due for many important original investigations, and educative work, which have been of practical assistance in mine explosions, mine fires, resulting in protection of life and property.

The meetings of the District Mine Inspectors held at Charleston, W. Va., under direction of Governor W. E. Glascock and Hon. John Laing, Chief of Department of Mines; at which matters pertaining to mining were fully discussed, have been of special value, and have borne good results for the reduction in the number of deaths in the mines for the past year is gratifying.

I wish to thank both coal operators and miners for prompt co-operation in the performance of my official duties.

It is with a feeling of gratitude that I express my appreciation to you as Chief of Department of Mines, for your wise counsel, advice and assistance, which at all times you have courteously and generously extended me, in order to broaden the scope of my usefulness in the interests of the coal industry.

Yours respectfully,

KARL F. SCHONW.

Mine Inspector, First District.

MARION COUNTY.

FOUR STATES COAL & COKE COMPANY.

WORTHINGTON, W. VA.

General Office of Company, Pittsburg, Pa., No. 412, Frick Building.

No. 101. *Annabell Nos. 1 & 2.—Pittsburg Seam.—Shaft.*—This mine is located three miles west of Worthington, on the M. R. Branch of the B. & O. Railroad. The first shipments of coal were made November 24th, 1910. Two shafts, each 304 feet deep, have been sunk to the bottom of the Pittsburg coal seam, which is eight feet in thickness, and of an excellent quality. But a little less than seven feet of this coal is being mined. The best markets for this coal are in the East, where it is in great demand among the larger gas companies, for gas making. It has also reached popularity in the export trades. The coal area at Annabell is about 6000 acres. It has been divided into two parts. No. 1 Mine is opened by two vertical shafts. No. 2 Mine will be opened by a slope, which is now under construction. A barrier pillar of two hundred feet thickness will separate the two mines. The slope is being driven on an angle of 25 degrees of the horizontal, making its length about 1412 feet. The slope will have a double track throughout, on which is operated an endless rope haul, which will put the mine cars on the tippie. The manway is to be separated by a fire proof wall from the haulage way. The two shafts of No. 1 are lined throughout with concrete. One of these shafts is used for hoisting coal, while the other is used for the main inlet air current to the mine. These two shafts are situated on the line parallel with the railroad track, and are 517 feet apart. On the surface, between these two shafts are located the mine buildings, which practically form one continuous structure, housing the hoisting engines, power generating machinery, and a thirty-five foot diameter reversible fan. This arrangement is very favorable for the installation of steam and compressed air piping. These are entirely under cover, and of minimum length. The mine buildings are of fire proof construction, having brick walls, reinforced concrete floors and steel roof trusses, supporting concrete tile roofs. The modern steel tippie of the No. 1 mine is located immediately at the coal hoisting shaft, and adjacent to the power buildings, and it contains the dump, kick backs, transfers, and pushers for handling the mine cars, shaking screens, for separating the lump from the fine coal, packing bands, which receive the lump coal from the shaking screens and deliver it to the railroad cars, and revolving screens, which separate the nut and slack. The repair shop is an extension of the tippie, the floor of the shop being at the same elevation as the tippie floor. The empty car tracks of the tippie extend entirely through the shop, and to a level yard, graded from the hillside. This makes a very convenient arrangement. There are four loading tracks to the tippie. Besides these four tracks, there are two tracks outside of the tippie, which are being used by the railroad company as main operating tracks. Additional tracks will be installed, which will serve the tippie of No. 2 Mine when it is finished. This will make a total of ten tracks in all. The two main tracks being in the center. The additional tracks are equipped with a full set of cross-overs, for convenience in classification, and the entire yard is on a favorable grade of 1.2 per cent, with exception of about 100 feet, under the tippie. While the tracks have a grade of 2 per cent.

The homes of the officials and miners have been built on an attractive site, covering adjacent hillsides, convenient to the plant. A concrete reservoir has been built across a valley, in close proximity to the mine, which furnishes ample storage of pure water for the mine. A modern brick plant has also been completed. This plant is fully equipped with modern brick making machinery, and supplies a steady demand for the mine and vicinity. The air shaft is equipped with a small headframe and steel safety catch, running between four rope guides. The catch is operated by a vulcan geared hoist. The coal hoisting shaft has two cage ways for hoisting in balance. The cages run between 6 inch by 8 inch yellow pine guides, placed flat, and supported at vertical intervals of five feet by extra heavy steel channels, the latter being 2 inches in depth, and have been extended across the shaft, and embedded in the walls. At the bottom of the air shaft intersects the arched passage way of the main air course. The approach of the arch being inclined upward at the intersection, in order to reduce the resistance to the air current, due to changing its direction. Similar intersections were formed at the bottom of the hoist shaft. However, the inclined approach here is much shorter. The main way around the hoist shaft bottom is cut through the solid coal. Undercutting the coal is being done with compressed air punchers, and blasting with permissible explosives. Expert shot firers and fire bosses are on duty day and night. Roof, timbering and drainage are good. A 35 foot diameter reversible fan is in operation day and night, and produces the necessary ventilation. The design of the fan and engines was given the most careful attention. The fan is attached to two engines. By this arrangement, one is being used constantly for its operation. Should repairs to the engine become necessary, a change from one engine to the other can be made in a few minutes.

The mine air is periodically examined by the operating company and the inspector, to determine whether the coal dust is properly watered down, and the gases which are being liberated properly diluted and rendered harmless. The mine is ventilated by the air splitting system. Precautionary measures are used to protect the mine employees against accidents.

The conditions of this mine are good, and the mine is operated in compliance with the requirements of the Mining Law.

E. F. MILLER, *General Manager*
Worthington, W. Va.

P. M. CONNOR, *Mine Foreman*,
GEORGE FORTNEY, *Mine Foreman*
JOHN HALL, *Fire Boss*,
JOHN ANDERSON, *Fire Boss*.

CONSOLIDATION COAL COMPANY, INCORPORATED.

HUTCHINSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 102. *Consolidation No. 67—Pittsburg Seam—Slope.* This mine is located at Hutchinson, W. Va., on the M. R. Branch of the B. & O. Railroad. A seven foot seam of coal is mined on the double entry system, with pick and electric chain machines. Blasting is done with black powder, and hauling with string teams to bottom of slope. Shot firing is directed by the Mine Foreman and Assistant. The roof is unsound in several sections of the mine, but very careful attention is given to timbering. Drainage is good. Pumping facilities

to eliminate water from the mine have been doubled during the year. A twelve foot diameter blow fan furnishes ample ventilation. Carbide lights are used very extensively. This mine is practically free from coal dust, but what little is left after loading it out is thoroughly watered down by proper regulation of the exhaust steam, injected into the intake air. The most of the coal has been mined on the south section of the mine, in order to get the pillars on a proper retreating system. The electric voltage inside of the mine has been changed from 500 to 250 volts.

During the year, a central power plant for the West Virginia division was designed. This plant is intended to consist of eight 1500 H. P. gas engines, directly connected to eight 1050 K. W. Generators. The plant is designed to consist of two equal parts. Each half is to contain four units. This plant will generate electric power at 2300 volts pressure, alternating current, 3 phase, 60 cycle, and the power will be stepped up to 40,000 volts for transmission.

An independent line has been installed. This line will reach all parts of the Consolidation Coal Company in West Virginia, using alternating current electric power. A tram road 1300 feet in length, on the West side of the river, to a stone quarry, has been completed.

Every precaution is taken by the officials to minimize the dangers to their employees, exceeding the requirements of the Mining Law in many respects, to accomplish this. The conditions of the mine are good, and full compliance with the requirements of the law is maintained.

H. H. WATSON, *General Manager,*

Fairmont, W. Va.

K. D. BAILEY, *Superintendent,*

Hutchinson, W. Va.

GEORGE R. COOK, *Mine Foreman,*

WM. R. EVANS, *Fire Boss.*

CONSOLIDATION COAL COMPANY, INC.

HUTCHINSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 103. *Consolidation No. 81.—Pittsburg Seam.—Slope.* This is a new mine, located at Hutchinson, W. Va., on the M. R. branch of the B. & O. Railroad. A seven foot seam of coal is mined on the double entry system, with electric chain machines. Blasting is done with permissible explosives, hauling with string teams to bottom of slope, and thence to the railroad by trail rope. Expert shot firers blast the coal. The roof is good. Very little timbering is necessary. Drainage is also good. A seven foot diameter blow fan provides ample ventilation. Gases are being liberated, but these are diluted and rendered harmless by ventilation. Competent fire bosses are employed, and are on duty day and night. Open lights are used. Steam is injected into the intake air, for moistening what little coal dust remains after it has been loaded out. Every precaution is taken by the officials to protect their employees from accidents.

The construction work has been completed, except the permanent steel tippie. After completion of the bridge across the Morongahela river by the American Bridge Company, the mine began dumping coal over the temporary wood tippie. Concrete piers and railroad side tracks have been completed. A blacksmith

and carpenter shop, and large brick supply house have been finished. A temporary sub-station, furnishing power for Nos. 84 and 67 Mines, has been constructed. Main haulage slope and manway have also been completed, both being lined concrete and steel. An additional air shaft is being sunk, which is to be used as the main air intake. The present seven foot Stein fan, producing ventilation, does not prevent egress from this mine. Chemical tests of the mine air are made periodically, by both the operating company and the inspector. The reports are carefully examined for small percentages of explosive gases, or any increase in the same, and to determine whether the atmosphere is becoming dry and dusty.

The conditions of this mine are good, it being well managed, and in every respect operated in compliance with the Mining Law.

H. H. WATSON, *General Manager*,

Fairmont, W. Va.

K. D. BAILEY, *Superintendent*,

Hutchinson, W. Va.

PERRY VERNON, *Mine Foreman*,

W. J. MOORE, Fire Boss.

CONSOLIDATION COAL COMPANY, INC.

MIDDLETON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 104. *Consolidation No. 28—Pittsburg Seam—Drift.* This mine is located at Middleton, on the M. R. branch of the B. and O. railroad. A seven foot seam of coal is mined with pick and chain machines, on the double entry system. The largest percentage of the coal has been mined from the pillars, and the recovery has been good. Blasting of coal is done with black powder, and hauling to railroad with electric motors. Shot firing is directed by the Mine Foreman and Assistant. Copper tamping bars and needles are used. The roof is unsound in several sections, but careful attention has been given to timbering, and the places made safe for the workmen by this means. Drainage has been a minor problem, as there is very little water in the mine. A twelve foot diameter exhaust fan produces ample ventilation. Mostly carbide lights are being used. No explosive gases have been detected liberating; however, tests of the mine air are being made periodically. Coal dust has been thoroughly watered down. During the colder season of the year steam is injected into the intake air, and when necessary, water cars are used.

The mine is kept in good condition, and operated in compliance with the requirements of the law.

H. H. WATSON, *General Manager*,

Fairmont, W. Va.

RUSH MILLER, *Superintendent*,

Fairmont, W. Va.

F. E. GIROD, *Mine Foreman*

CHARLIE BIRCHER, Fire Boss.

CONSOLIDATION COAL COMPANY, INC.

MIDDLETON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 105. *Consolidation No. 47—Pittsburg Seam—Drift.* This mine is located at Middleton, on the M. R. branch of the B. & O. railroad. A seven foot seam of coal is mined on the double entry system. Undercutting is done with

pick and electric chain machines. Blasting with black powder, and hauling to railroad with electric motors. Shot firing is directed by Mine Foreman and Assistant. Copped tamping bars and needles are used. A competent fire boss is employed to inspect the mine for gases. The roof is good in general. Timbering and drainage are also good. During the year, a new ten foot diameter reversible fan, steam connected, has been installed; also two 100 H. P. Boilers, and 14x18 engine. A boiler house of brick was erected.

The developments were made on the south section of the main heading, where pillars have been started. The recovery of coal from pillars was good. No. 2 main butt heading.

No accumulations of coal dust are allowed, as it is being loaded out, and what little remains is thoroughly watered, by inducing exhaust steam into the intake air.

This mine is in very good condition, well managed, and the law fully complied with.

H. H. WATSON, *General Manager,*

Fairmont, W. Va.

RUSH MILLER, *Superintendent,*

Fairmont, W. Va.

JASPER L. MILLER, *Mine Foreman,*

A. GRAVES, *Assitant Mine Foreman,*

C. D. WERNER, *Fire Boss.*

CONSOLIDATION COAL COMPANY, INC.

MIDDLETON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 106. *Consolidation No. 36—Pitsburg Seam—Drift.* This mine is located at Middleton, on the M. R. Branch of the B. & O. Railroad. A seven foot seam of coal is mined on the double entry system. This mine is on the retreat. A large percentage of pillar coal has been recovered. Undercutting of the coal is done with picks and electric chain machines. Blasting with black powder, and hauling to the railroad with electric motors. Blasting of the coal is directed by the Mine Foreman and his assistant. Copper tamping bars and needles are used throughout the mine. Timbering has received very careful attention, on account of unsoundness of roof in several sections. The drainage is good. A large sump has been completed at third south face. A twelve foot diameter exhaust fan produces the necessary ventilation.

No explosive gases are liberating, and open lights, consisting of about 75 per cent carbide, are being used. This mine is inclined to be wet, due to water entering through robbings. Coal dust is not allowed to accumulate in the working faces, as it is being loaded out, and what remains is being watered by inducing exhaust steam into the intake air.

The requirements of the Mining Law are fully complied with, and the mine is in first class condition.

H. H. WATSON, *General Manager,*

Fairmont, W. Va.

RUSH MILLER, *Superintendent,*

Fairmont, W. Va.

JOHN DAVIS, *Mine Foreman*

B. F. HOLDSWORTH, *Fire Boss.*

CONSOLIDATION COAL COMPANY, INC.

MIDDLETON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 107. *Consolidation No. 59—(Old Anderson)—Pittsburg Seam—Drift.*

This mine is located at Middleton, on the M. R. Branch of the B. & O. Railroad. A seven foot seam of first class coal is mined on the double entry system. All coal mined is from pillar workings. Undercutting is done with pick, blasting with black powder, and hauling to railroad with string teams. Copper tamping bars and needles are used. Shot firing is done under the direction of mine foreman. The roof is bad in several sections, but timbering is carefully attended to. Ventilation, produced by a twelve foot diameter force fan is good, also drainage is good. No gases are liberateing, but examinations are made periodically of the mine air for indications of any irregularities in the quantities of air in each split; of the atmosphere becoming drw and dusty, or any increase in mine gases. Open lights are used. The requirements of the mining laws are complied with. This mine is in good condition and well managed.

H. H. WATSON, *General Manager,**Fairmont, W. Va.*RUSH MILLER, *Superintendent,**Fairmont, W. Va.*J. O. DAVIS, *Mine Foreman.**CONSOLIDATION COAL COMPANY, INC.*

MIDDLETON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 107. *Consolidation No. 59—(Bryan Anderson)—Pittsburg Seam—Drift.*

This mine is located at Middleton, on the M. R. Branch of the B. & O. Railroad. A seven foot seam of first class coal is mined on the double entry system. This mire is on the retreat. Undercutting is done with pick, blasting with black-powder, and hauling to railroad with string teams. Copper tamping bars and needles are used. The Mine Foreman and his Assistant direct the blasting of coal. The roof is made secure by taking the loose slate and coal down, still careful timbering is resorted to. Ventilation is good, and is produced by a twelve foot fan blowing. Drainage is also good. No explosive gases have been detected liberating, but careful examinations were made of the mine air, to determine as to whether small percentages of gases were liberated, and also to ascertain the percentages of humidity. Mostly carbide lights are used, thereby eliminating the smoke nuisance from oil lights and affording additional protection to miners against roof falls, as carbide gives a much better light than oil.

The requirements of the mining laws are complied with in every respect, due to careful management. The safety conditions are good.

H. H. WATSON, *General Manager,**Fairmont, W. Va.*RUSH MILLER, *Superintendent,**Fairmont, W. Va.*J. O. DAVIS, *Mine Foreman.*

HARRY B. COAL COMPANY.

EVERSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 108. *Junior Mine—Pittsburg Seam—Drift.* This mine is located one mile southwest of Everson, on the M. B. Branch of the B. & O. Railroad. The first shipments of coal were made April 16th 1912, over a temporary tippie. The coal has an average thickness of 8 ft. 6 in., is a superior quality, and is mined with picks on the double entry system. Blasting is done with black powder, under the direction of the mine foreman. The coal is hauled with string teams to the railroad. The roof is good nevertheless the working places are carefully timbered. Natural drainage is good. On account of the favorable elevation between the drift openings and the shaft of Consolidation No. 34 Mine, the latter being the main inlet for the air, the natural ventilation gives good results. However, the Company intends to install a fan in the near future. Coal dust is loaded out, but what little remains is thoroughly watered down by atmospheric deposit of moisture. The management uses the necessary precautions to prevent accidents to employees. The requirements of the mining laws are carefully observed. The permanent wooden coal tippie has been completed, and has been well arranged for dumping and preparing the coal for the market. Comfortable miners' houses, store and other necessary buildings have been completed. This plant looks attractive in every respect.

HARRY B. CLARK, *General Manager,**Fairmont, W. Va.*J. A. CLARK, JR., *Superintendent,**Fairmont, W. Va.*H. C. SAUNDERS, *Mine Foreman,**HARRY B. COAL COMPANY.*

EVERSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 108. *Harry B. Nos. 5 and 6 Mines—Pittsburg Seam—Drifts.* Located one and one-quarter miles Southwest of Everson, on the M. B. Branch of the B. & O. Railroad. These mines are on the retreat. A seven foot seam of first class coal is mined on the double entry system. The coal is mined with pick, blasted with black powder, and hauled to railroad with string teams. Shot firing is directed by mine foreman. Roof, timbering and drainage are good. Natural ventilation gives good results. Coal is loaded out, but what little remains is properly watered down. Mine No. 2 has been idle since May 24th 1912. Proper precaution is exercised by the management to prevent accidents to employees, and none have occurred.

This mine is well managed, and operated in compliance with the requirements of the mining laws.

HARRY B. CLARK, *General Manager,**Fairmont, W. Va.*J. A. CLARK, JR., *Superintendent,**Fairmont, W. Va.*H. C. SAUNDERS, *Mine Foreman,*

KILARM COAL & COKE COMPANY,

MONONGAH, W. VA., R. F. D., No. 8.

General Office of Company, Connellsville, Pa.

No. 109. *Kilarm Nos. 1, 2, & 3 Mines—Pittsburg Seam—Drifts.*—Located at Kilarm, two miles Southwest of Everson, on the M. R. Branch of the B. & O. Railroad. A seven foot seam of high grade coal is mined on the double entry system. The coal is undercut with pick, blasted with black powder, and hauled to railroad with string teams. Shot firing is done under direction of mine foreman. Roof, timbering and drainage are good. Ventilation is produced by a fan, and natural which produce good results. No explosive gases are liberating. Open lights are used, which consist mostly of carbides. Coal dust is not allowed to accumulate, but what little remains after loading it out is thoroughly watered.

The necessary precautions are taken to protect mine employees against accidents. The mine is in good condition, and well managed.

C. E. ZEEK, *Superintendent.*C. A. MAZE, *Mine Foreman.**Monongah, W. Va., R. F. D. No. 8.*

CONSOLIDATED COAL COMPANY, INC.

EVERSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 110. *Consolidation No. 68—Pittsburg Seam—Drift.*—This mine is located Everson, on the M. R. Branch of the B. & O. Railroad. A seven foot seam of coal of splendid quality is being mined on the double entry system. About eighty percent of pillar coal was mined. Undercutting is done with pick, and blasting with black powder. The coal is hauled with string teams to foot of incline, and from there to railroad with tail rope. Shot firing is done under direction of mine foreman and assistant. The roof is unsound in several sections of the mine, but timbering is carefully attended to. Ventilation produced by a twelve foot diameter force fan is good, also drainage is good. No gases are liberating, and open lights are used. Coal dust is loaded out as far as practical, but what remains is thoroughly saturated with moisture by proper regulation of steam induced into the intake air. This mine is practically on retreat, robbing of pillars has been carried on successfully. Safety conditions are good. A 100 H. P. boiler has been installed, and additional improvements have been made in ventilation and drainage.

Precautions are taken to prevent accidents to employees. Discipline is maintained, and the requirements of the mine laws are complied with.

H. H. WATSON, *General Manager.*GEORGE BUCY, *Mine Foreman.**Fairmont, W. Va.*RUSH MILLER, *Superintendent.**Fairmont, W. Va.*

CONSOLIDATION COAL COMPANY, INC.

MONONGAH, W. VA.

General Office of Company, Fairmont, W. Va.

No. 111. *Consolidation No. 63—Pittsburg Seam*—This is a drift mine, located at Monongah, on the M. R. Branch of the B. & O. Railroad. A seven foot seam of coal of excellent quality is mined on the double entry system. Pillars

furnished about 60 per cent of the coal mined this year. Undercutting is done with pick and electric chain machines, blasting with permissible explosives, and hauling with electric motors. Five competent shot firers are employed. Ventilation produced by a twenty foot diameter force fan is good. The fan has been rebuilt. Roof, timbering and drainage are good. Improvements were made by completing several ditches for drainage, concrete pump houses, a sump, and a pumping station in Third North Face, and Superintendent's Office and Freight Station. During recent inspections, gases were detected liberating in small quantities, but were made harmless by ventilation. Examinations are being made periodically of the mine air. Results of these analyses are furnished the operating officials. These reports are carefully examined for any irregularities in the quantities of air in each split, of the atmosphere becoming dry and dusty, or of any increase in mine gases.

Competent fire bosses are on duty day and night. Open lights are used. Precautionary measures are taken to minimize the dangers to employees, exceeding the requirements of the law in many respects to accomplish this. Coal dust is properly watered down by induction of steam into the intake air. This mine is in first class condition and well managed.

H. H. WATSON, *General Manager*,
Fairmont, W. Va.

P. J. MCGRAW, *Superintendent*,
Monongah, W. Va.

S. S. DAVIDSON, *Mine Foreman*.

CHAS. KING, *Asst. Mine Foreman*.

PAT COSTELLO, *Asst. Mine Foreman*.

A. W. JOHNSON, *Fire Boss*.

THOS. BURLOCK, *Fire Boss*.

CONSOLIDATION COAL COMPANY, INC.

MONONGAH, W. VA.

General Office of Company, Fairmont, W. Va.

No. 112. *Consolidation No. 34.—Pittsburg Seam.*—This is a drift mine, located at Monongah, on the M. R. Branch of the B. & O. R. R. A seven foot seam of splendid coal is mined on the double entry system. About 80 per cent of coal was mined from pillars. Undercutting of the coal is done with pick and electric chain machines, and blasting with black powder. Electric motors are used for hauling the coal to the tippie. Shot firing is directed by mine foreman. Roof, timbering and drainage are good. A ditch for drainage improved conditions. Ventilation produced by a twelve foot diameter Force fan is good. No gases are liberating, and open lights are used. Care has been taken where pillars were robbed under an 8 inch gas line to prevent breaking the latter. This mine is practically free from coal dust, but what little remains after loading it out is properly watered down. Care is exercised by the officials to minimize the danger to their employees. Consolidation No. 34 is in good condition, well managed, and operated in compliance with the requirements of the mining laws.

H. H. WATSON, *General Manager*,
Fairmont, W. Va.

P. J. MCGRAW, *Superintendent*,
Monongah, W. Va.

B. F. FREEMAN, *Mine Foreman*.

DORIE GRANDRY, *Fire Boss*.

CONSOLIDATION COAL COMPANY, INC.
MONONGAH, W. VA.

General Office of Company, Fairmont, W. Va.

No. 113. *Consolidation No. 43.—Pittsburg Seam.—Slope.*—This mine is located at Monongah, on the M. R. Branch of the B. & O. R. R. A seven foot seam of excellent coal, is being operated on the double entry system, of which about 60 per cent was mined from pillars. The coal is undercut with pick and electric chain machines, blasted with permissible explosives and hauled to railroad with electric motors and tail rope. Four competent shot-firers are employed. Roof, timbering and drainage are good. Ventilation produced by a twenty foot diameter force fan is giving good results, however, an emergency fan is kept in readiness and good condition. Explosive gases are liberating, but are diluted by ventilation. Analyses of the mine air are made periodically by the operating company and the district mine inspector. The net result of these analyses and reports is to place before the operating companies and the State Mining Department responsible for the safety of the men and property, absolutely accurate and reliable figures, showing the amount of air circulating in each section of the mine in relation to the quantity of gas generated in that district. Coal dust is loaded out as far as practical, and what remains is properly saturated with moisture by inducing steam into the intake air. A coal washing and preparing plant has been completed. The coal is of exceptional good quality, being very low in Sulphur and Ash, still additional precautions are taken to free this coal of impurities, before it is shipped to market. The water system has been much improved, by the installation of a reservoir, located on the hill in West Monongah, the capacity is 5700 barrels. A large pumping station was completed on the 3rd. North Face Heading, in which a large 1000 gallon triples plunger pump was installed and connected to a 126 H. P. Induction Motor. A sump at 3rd Left Air Way from No. 4 north face, to receive the drainage water, has been enlarged. A considerable amount of ditching has been done, by which several pumps have been released. A second emergency connection was made at the Face of No. 4 South Heading, through which an entrance to No. 63 Mine could be effected in a short time. For mine fire protection, a 45 gallon chemical engine has been placed in a well constructed room along the Main Heading. A new mine foreman's office has been erected. A supply house, equipped with elevators and platform was also built. This mine is in good condition, carefully managed and operated in compliance with the requirements of the law.

H. H. WATSON, *General Manager,*
Fairmont, W. Va.

EDWARD BROWN, *Mine Foreman.*

WALTER DAVIS, *Asst. Mine Foreman.*

T. R. BARBER, *Superintendent,*
Monongah, W. Va.

LEE SEATON, *Fire Boss.*

S. A. CAMERON, *Fire Boss.*

CONSOLIDATION COAL COMPANY, INC.
MONONGAH, W. VA.

General Office of Company, Fairmont, W. Va.

No. 114. *Consolidation No. 22.—Pittsburg Seam.—Drift.*—This mine is located at Monongah, on the M. R. Branch of the B. & O. R. R. A seven foot seam of high grade coal is mined on the double entry system, with pick and electric chain machines. Blasting is done with black powder, and hauling

with electric motors. Shot firing is directed by mine foreman. Roof, timbering and drainage are good. Improvements were made in drainage by ditching. Ventilation produced by a fifteen foot diameter force fan gives satisfactorily results. No gases have been detected. Open lights are used. Coal dust is not allowed to accumulate, but what little remains after loading it out is properly watered down. Completed a sub station, main haul track and large pump. The requirements of the laws are complied with. This mine is in good condition, and is well managed.

H. H. WATSON, *General Manager*,

Fairmont, W. Va.

WALTER BROWN, *Mine Foreman*,

CHAS. STRICKLER, *Asst. Mine Fore.*

C. E. PEDDICORD, *Superintendent*,

Fairmont, W. Va.

CONSOLIDATION COAL COMPANY, INC.

MONONGAH, W. VA.

General Office of Company, Fairmont, W. Va.

No. 115. *Consolidation No. 53.—Including Shaver No. 1 & 2.—Pittsburg Seam.—Drift.*—This mine is located at Monongah on the M. R. Branch of the B. & O. R. R. A seven foot seam of first class coal is mined on the double entry system. About 50 per cent of the coal mined was pillar coal. Undercutting is done with pick and electric chain machines, blasting with black powder, and hauling with electric motors. Shot-firing is directed by mine foreman. Drainage, roof and timbering are good. Ventilation produced by two force fans, twelve and seven feet diameter each, is satisfactorily. No gases are liberating. Open lights are used. Coal dust is not allowed to accumulate, but what little remains is properly watered down, by proper application and regulation of steam into the intake air. Completed a sub-station, and one over east at 4th Left Heading. The officials carefully guard against accidents to their employees. This mine is in good condition, and is operated in compliance with the requirements of the mining laws.

H. H. WATSON, *General Manager*,

Fairmont, W. Va.

WALTER BROWN, *Mine Foreman*,

JOHN ABERCOMBEE, *Assistant M. F.*

C. E. PEDDICORD, *Superintendent*,

Monongah, W. Va.

CONSOLIDATION COAL COMPANY, INC.

WATSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 116. *Consolidation No. 56.—Pittsburg Seam.—Drift.*—This mine is located at Watson, on the M. R. Branch of the B. & O. R. R., operating in a seven foot seam of high grade coal, on the double entry system with pick and electric chain machines. A large percentage of coal mined is pillar coal. Blasting is done with permissible explosives, hauling with electric motors to main turn out, and thence to railroad with tail rope. Five competent shot-firers are employed. Roof, timbering and drainage are good. A thirteen foot diameter blow fan produces ample ventilation to render gases which are liberating harmless. Analyses of the mine air are made at regular intervals by the operating company and the district mine inspector. Steam is induced into the intake air, which produces the amount of moisture required to water the coal dust properly. Competent fire bosses are on duty day and night. Mostly carbide lights are

used. An underground substation fully equipped is in operation. A 45 gallon fire engine has been placed inside of the mine, ready for use in case of emergency. Overcasts and brick stoppings have been built. This mine is in good condition, and the requirements of the law are fully observed.

H. H. WATSON, *General Manager*.

J. E. TRICKETT, *Mine Foreman*.

Fairmont, W. Va.

ARTHUR EVANS, *Asst. Mine Foreman*.

HARRY CRANE, *Superintendent*.

WALTER GRIFFITH, *Fire Boss*.

Watson, W. Va.

W. E. MYERS, *Fire Boss*.

CONSOLIDATION COAL COMPANY, INC.

WATSON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 117. *Consolidation No. 26.—Pittsburg Seam.—Drift.*—This mine is located at Watson on the M. R. Branch of the B. & O. R. R. A seven foot seam of excellent coal, is mined on the double entry system, with pick and chain machines. About 60 per cent of the coal mined comes from pillars. Blasting is done with permissible explosives, and hauling coal to tipples with electric motors. Six competent shot-firers are employed. The roof is unsound in several sections of the mine, but timbering is very good. Ventilation produced by a new six by twenty foot diameter fire proof, reversible fan, blowing, gives satisfactory results. This new fan has been installed at the air shaft connected with the advanced workings of the mine. In connection with this fan the following improvements were made: 3-100 H. P. boilers, a 400 H. P. engine, and fire proof buildings for the same. Gases are liberating, but the necessary precautions are taken to render these harmless. Examinations are made periodically of the mine air. Results of these analyses are furnished the operating officials on a regular form. These reports are carefully examined for any irregularities in the quantity of air in each split; of the atmosphere becoming dry and dusty; or of any increase in mine gases. Steam is induced into the intake air to produce the necessary amount of moisture for watering the coal dust properly. The percentage of moisture is reported after each inspection is made by the district mine inspector. Competent fire bosses are on duty day and night. Open lights are used. Precautionary measures are used by the officials in charge to protect employees against accidents. This mine is in good condition. The requirements of the law are complied with. A spirit of harmony prevails among operator and miners.

H. H. WATSON, *General Manager*.

B. G. ASH, *Mine Foreman*.

Fairmont, W. Va.

C. M. THOMAS, *Asst. Mine Foreman*.

H. C. ASH, *Superintendent*.

NAT VILLERS, *Asst. Mine Foreman*.

Watson, W. Va.

E. E. ANDERSON, *Fire Boss*.

T. T. HAY, *Fire Boss*.

R. E. STRAUS, *Fire Boss*.

THE ROBINSON COAL COMPANY.

KINGMONT, W. VA.

General Office of Company, Fairmont, W. Va. No. 418 Merchant St.

No. 118. *James Mine.—Pittsburg Seam.*—This is a drift mine, located 2 miles east of Fairmont, on the Grafton and Wheeling Division of the B. & O. R. R. A 5 feet 9 inches coal is mined on the double entry system, under-

cutting of coal is done with picks, blasting with black powder and hauling with string teams to railroad. Shot-firing is directed by the mine foreman. A furnace is used for ventilating, which produces ample ventilation. This is a new mine. The first shipments of coal were made May 19, 1911. Improvements are being made in drainage. No explosive gases are liberating, therefore open lights are used. Coal dust is loaded out, but what little remains is kept thoroughly wet by the water entering through surface breaks. At the close of our fiscal year, this mine did not come under the jurisdiction of the Dept. of Mines, as less than five men were employed inside the mine. This mine is in good condition, excepting the drainage.

CLARENCE D. ROBINSON, *Gen. Mgr.*, J. W. DENNISON, *Mine Foreman*,
418 Merchant Street, Fairmont, W. Va.

THE VIRGINIA & PITTSBURG COAL & COKE COMPANY.

KINGMONT, W. VA.

General Office of Company, Fairmont, W. Va.

No. 119. *Kingmont.—Pittsburg Seam.—Drift.*—This mine is located at Kingmont on the Grafton & Wheeling Division of the B. & O. R. R. A seven foot seam of first class coal, is mined on the double entry system. A large percentage of coal mined is pillar coal. The undercutting of the coal is done with pick, and blasting with black powder. Electric motors haul the loaded cars to main turn-out and from there a tail rope delivers them to railroad. Shot-firing is directed by mine foreman and assistants. The roof is good, timbering is exceptionally good. Ventilation produced by a sixteen foot exhaust fan gives good results. Improvements in ventilation were made. No gases are liberating, still a fire boss is employed. Open lights are used. Coal dust is loaded out as far as practical, and what little remains is properly watered down. However, this mine is naturally inclined to be wet, due to water entering through many surface leaks in pillar robbings. Drainage is good. Steam is turned into intake air during the colder season to produce moisture for watering coal dust. Special precautions are taken by officials to prevent accidents to employees. Fortunately no fatal accidents have occurred at this mine during the past year, largely due to carefulness of officials and miners. This mine is in good condition, well managed, and is operated in compliance with the requirements of the mining laws.

R. M. HITE, *General Manager*,
Fairmont, W. Va.

JOHN BROWN, *Mine Foreman*,
WM. JARRETT, *Mine Foreman*,
HARRY SHOEMAKER, *Fire Boss*.

THE PHILLIPS COAL COMPANY.

BENTON'S FERRY, W. VA.

General Office of Company, Fairmont, W. Va. (No. 619 Jamison St.)

No. 120. *Phillips Mine.—Pittsburg Seam.*—This is a drift mine located at Bentons Ferry on the Grafton and Wheeling Division of the B. & O. R. R. A seven foot seam of high grade coal is mined on the double entry system. The coal is mined with pick, blasted with black powder, and hauled with string teams to upper terminal of an aerial bucket line, thence by the latter conveyed to railroad. This mine has been idle for several month during the past year, but operations have been resumed. Shot-firing is directed by mine fore-

man. Roof, timbering, drainage and ventilation are good. A fan of five feet diameter to ventilate the mine workings, produces ample ventilation. Coal dust is loaded out, but what remains is properly watered down. No gases are liberating, and open lights are used. This mine is in good condition, and is operated in compliance with the requirements of the laws.

JAMES PHILLIPS, *General Manager*. JAMES PHILLIPS, *Mine Foreman*.
Fairmont, W. Va.

JAMISON COAL & COKE COMPANY.

BARRACKSVILLE, W. VA.

General Office of Company, Fairmont, W. Va.

No. 121. *Jamison No. 7.—Pittsburg Seam.*—This is a drift mine, located one-half mile west of Barracksville, on the Grafton and Wheeling Division of the B. & O. R. R. A high grade seam of coal nine feet in thickness, is mined on the double entry system. Undercutting is done with compressed air punchers, blasting with permissible explosives, and hauling to shaft bottom with compressed air locomotives. Three competent shot-firers are employed one day and two on night shift. Roof, timbering and drainage are good. Also ventilation produced by two ten foot diameter force fans is good. Coal dust is thoroughly watered by forcing exhaust steam into the main intake airway. Gases are liberating, but the necessary precautions are taken to render these harmless by ventilation. Locked safety lamps are used exclusively. Three competent fire bosses are on duty day and night. Modern machinery has been installed, and consists of the following:

Inside of Mine.

“A” Shaft, size 13 ft. x 26 ft.—3 compartments—Timber lined, 310 ft. deep.

“B” Shaft, size 13 ft. x 26 ft.—3 compartments—Timber lined, 300 ft. deep.

Air Shafts, size 16 ft. x 31 ft.—3 compartments—Timber lined 297 ft. deep.

“A” Shaft bottom—450 ft. brick arch, 19 ft. wide, 17 in. thick, four double tracks (loads.)

120 ft. Brick Arch, 12 wide, 17 in. thick, four single tracks. (Empties.)

Chain Car Haul to Elevate Empties—4 cars per minute. Driven by 15 H. P. motor.

15,000 feet track 40 lb. Iron, in main haulages, 20 lb. Iron elsewhere.

1 20 ton Compressed Air Motor.

2 7½ ton Compressed Air Motors (Compound.)

22 Compressed Air Puncher Machines.

4 Pumps 6 x 3½ x 8.

1 Pump 16 x 6 x 18.

250 Steel Mine Cars.

24 Horses and Mules.

11 Overcasts 13 in. Brick Walls, Reinforced Concrete Floors.

225 9 in. Brick Walls Stoppings.

6,000 ft. 6 in. 100 lb. Pressure Air Pipe Line.

1,500 ft. 4 in. 1000 lb. Pressure Air Pipe Line.

Outside of Mine.

“A” Shaft Tripple and Head Frame, Steel throughout, equipped with self-dumping cages, Gravity Screens and Chutes maximum daily capacity 3,000 tons.

Air Shaft. Head Frame, Steel. Equipped with single cage, for hoisting men and materials.

1 Ventilation Fan 10 ft. x 4 ft. Belt Driven, by 80 H. P. 550 Volt Motor, housed in brick with concrete roof.

1 Fan 10 ft. x 7 ft. Belt Driven, by 80 H. P. 550 Volt Motor, or 160 H. P. Gas Engine, all housed in brick with concrete roof.

Boiler House.—Size 90 ft. x 45 ft. brick walls, steel roof trusses, tile roof.

3 vertical water tube boilers, 400 H. P. each. Slack coal used as fuel conveyed from tippie by rope and drum, driven by 15 H. P. Motor.

1 Feed Water Pump 12 x 7 x 12.

1 Feed Water Heater.

Hoisting Engine House "A" Shaft.—Size 50 ft. x 39 ft. brick, steel and tile.

1 Double Hoisting Engine, Cylinders 24 x 36, 8 ft. Drum, and 2 1¼ in. ropes, over 8 ft Sheaves on Head Frame.

1 Emergency Compressor, 36 x 16, 1000 feet per minute.

Power Building.—Size 100 ft. x 45 ft. brick, steel and tile.

2 150 K. W. 550 Volt Generators, each driven by 240 H. P. Steam Engines, direct connected.

1 80 H. P. 550 Volt Motor, driving 45 K. W. 11 Volt Generator for lighting purposes.

1 Gross Compound, Low Pressure Compressor, 3000 feet per minute.

1 High Pressure Compressor, 4 Stage.

Hoisting Engine House—Air—Shaft.—Size 30 ft. x 20 ft. brick, steel and tile.

1 Double Hoisting Engine, Cylinders 14 in. x 24 in. 6 ft. Drum, 1¼ rope, over 8 ft., Sheave Wheel on Head Frame.

Machine, Carpenter and Blacksmith Shop.—Combined, size 120 ft. x 36 ft. Brick, steel and tile.

Oil House.—36 ft. x 30 ft. brick, steel and tile.

Feed House.—50 ft. x 36 ft. brick, steel and tile.

Supply House.—80 ft. x 40 ft. brick, steel and tile.

Lamp House.—Size 45 ft. x 20 ft. brick, steel and tile. 500 Wof Safety Lamps.

Pump House.—12 x 14. Brick walls, wood and "Rubberoid Roofing" Roof.

1 Centrifugal Pump, direct connection to 20 H. P. 500 Volt Motor.

1 Duplex Steam Pump, 14 x 7 x 12.

Store Building.—Three stories, frame, size 66 ft. x 100 ft.

Superintendent's House.—Frame Bungalow.

5 6 room single frame foremans' dwelling houses.

40 8 room double, frame dwelling houses.

1 28 room 3 story frame boarding house.

3 water tanks. Total capacity 105,000 Gals.

This mine is intended to become in time one of the largest coal producers in this state. The system of mining adopted has been approved by the State Mining Department. This mine is well managed and is being operated in compliance with the requirement of the law.

M. W. HEAD, *General Superintendent*, M. E. ADAMS, *Mine Foreman*,
Fairmont, W. Va. DAN PURCELL, *Mine Foreman*,

O. E. HUGHES, *Superintendent*, J. B. STEVENSON, *Fire Boss*,
Baracksville, W. Va. A. E. ATKINSON, *Fire Boss*,
GEO. W. ARZT, *Fire Boss*.

JAMISON COAL & COKE COMPANY.

FARMINGTON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 122. *Jamison No. 8 (Formerly Georges Creek Coal & Iron Company)—Pittsburg Seam.*—This is a shaft mine of the twin type, located at Farmington, on the B. & O. R. R., on the Grafton and Wheeling Division. Depth of shaft 255 feet to the bottom of coal, which is eight feet thick, of excellent quality, and is mined on the double entry system. Undercutting is done with pick and compressed air punchers. Blasting with permissible explosive, and hauling to shaft bottom with compressed air locomotives. Seven competent shot-firers are employed. The roof is unsound in several sections, but timbering is very good. Also drainage is good. Ventilation produced by a twenty-two foot diameter blow fan is satisfactory, however, improvements are made, such as relining of air shaft, building of overcast and concrete stoppings. Coal dust is not allowed to accumulate, but what little remains is properly watered down by forcing exhaust steam into the intake air. Percentages of moisture in different sections of the mine are ascertained periodically, and recorded by the mine foreman and the district mine inspector. Analyzing the mine air is done periodically by the District Mine Inspector. Locked safety lamps are used exclusively. Four competent fire bosses are employed. The following improvements have been made inside and outside of this mine.

New steel head frame at tippie.

40 Beehive coke ovens.

500 ton washed slack bin.

2700 Amp. Generator.

Electric Coke Oven Larry.

18 room boarding house.

Water works and fire protection for all tenements.

Eight 300 H. P. boilers vertical water tubes.

One high stage air compressor which supplies pneumatic power for two

20 ton and four 7½ ton mine locomotives.

New power building 60 ft. x 150 ft.

100 individual railroad cars.

Robbing of pillars is receiving careful attention. The necessary precautions were taken to prevent accidents to employees. This mine is well managed, and the requirements of the law are complied with in every respect.

M. W. HEAD, *General Superintendent.* M. E. QUENON, *Mine Foreman.*

Fairmont, W. Va.

E. L. GRIFFITH, *Mine Foreman.*

G. M. MUSGRAVE, *Superintendent.*

ED. CAPET, *Fire Boss.*

Farmington, W. Va.

W. BEUGLASS, *Fire Boss.*

D. THOMAS, *Fire Boss.*

A. T. HALL, *Fire Boss.*

JAMISON COAL & COKE COMPANY.

FARMINGTON, W. VA.

General Office of Company, Fairmont, W. Va.

No. 123. *Jamison No. 6 and Chatham Shaft.—Pittsburg Seam.—Shaft.*—This mine is located two miles north of Farmington, on a branch line of the Baltimore & Ohio Railroad, on the Grafton & Wheeling Division. Depth of

shaft 322 feet to bottom of coal, which is 8 feet 6 inches thick, and of first class quality. The coal is mined on the double entry system, undercut with compressed air punches, blasted with permissible explosives, and hauled to shaft bottom with compressed air locomotives. The ventilation is good. A reversible, blowing, fan of twenty-three feet diameter driven by a 26 in. x 24 in. steam engine supplies ample ventilation. Moisture in the mine workings is well maintained, and is in compliance with the requirements of the law. It is done by forcing steam into the intake air. Gases are liberating, but the proper precautions are taken to prevent accumulations by ventilation. Locked safety lamps are used exclusively. Seven competent shot-firers are employed, and are on duty day and night. Modern machinery has been installed, first class work has been done and consists of the following:

All mine buildings are of brick construction. The tippie is constructed of steel throughout. The cages are of self-dumping type and substantially built. The coal handling and preparing machinery is first class. Six grades of coal are being prepared for the market. The hoisting engines are of the first motion type, size 24 in. x 36 in., drums are seven feet diameter and grooved for $1\frac{1}{4}$ in. rope. The power house is equipped with a 1600 H. P. boiler capacity, and feed water is heated in a large heater of closed type. Further, several compressors for high and low pressure air and a 15 K. W. 125 volts generator for lighting purposes are in operation. This plant has three shafts, of which two are for coal hoisting and the other for the main inlet, ingress and egress for men and for handling supplies. The town is composed of a large store, a four room school house constructed of brick, one church, thirty double and twenty-four well constructed miners homes, and three homes for officials. This plant appears modern in every respect. Coal shipments have considerably increased during the past year. This mine is intended to become in time one of the largest coal producers in this state. A system of mining is being used which has been approved by the State Mining Department. The requirements of the law are complied with. This mine is well looked after, and a spirit of harmony prevails between operator and miners.

M. W. HEAD, *General Superintendent.*

Fairmont, W. Va.

GEORGE MORRIS, *Superintendent.*

Farmington, W. Va.

JOE GREEN, *Mine Foreman.*

E. L. GRIFFITHS, *Mine Foreman.*

J. H. PARRISH, *Fire Boss.*

BENJ. WAKEFIELD, *Fire Boss.*

A. STURM, *Fire Boss.*

F. G. LOUGH, *Fire Boss.*

THE CONSOLIDATION COAL COMPANY, INC.

BARNESVILLE, W. VA.

General Office of Company, Fairmont, W. Va.

No. 124. *Consolidation No. 38.—Pittsburg Seam.—Shaft.*—This mine is located at Barnesville, on the Grafton and Wheeling Division of the B. & O. R. R. Mining in a seven foot seam of excellent coal, on the double entry system. A large percentage of the coal mined is from pillars. Undercutting is done with pick and electric chain machines, blasting with permissible explosives and is hauled to shaft bottom with electric motors. Roof, timbering and drainage are good. Ventilation is produced by a reversible blowing fan

of twenty feet in diameter which gives good results. Gases are liberating, but special care is taken to render these harmless by ventilation. Examination of the mine air is made periodically. Results of these tests are furnished the operating officials on a regular form. These reports are carefully examined for any irregularities in the quantities of air in each split; of the atmosphere becoming dry and dusty; or of any increase in mine gases. Coal dust is not allowed to accumulate, but what little remains after loading it out is properly watered down by proper regulation of steam induced into the intake air. Splendid results have been obtained by this process of moistening the interior of the mine. A number of well constructed miners homes have been completed. A new substation containing 150 K. W., rotary converters and three K. V. A., transformers were erected, to furnish power for the mines, satisfactory results have been obtained. The air shaft on Buffalo Creek has been completed and the ventilation on the north side of the mine been changed. The shaft is substantially built of concrete and equipped with iron ladder. A new emergency outlet was provided on the south side, by the purchase of the property and shaft, which formerly was operated by P. M. Hoge. A chemical fire engine has been placed near the shaft bottom for inside mine fire protection. Besides the usual improvements such as concrete stoppings and overcasts have been built. Precautionary measures are used by officials to protect employees against accidents. This mine is well managed and operated in compliance with the requirements of the mining laws.

H. H. WATSON, *General Manager*,
Fairmont, W. Va.

J. J. BRENNEN, *Superintendent*,
Fairmont, W. Va.

HAYES GASKINS, *Mine Foreman*,
GENTS RATKE, *Asst. Mine Foreman*,
JOHN JACK, *Fire Boss*,
H. U. SAPP, *Fire Boss*,
J. J. CARSKADON, *Fire Boss*.

DAKOTA COAL & COKE COMPANY.

SPARLAN, W. VA.

General Office of Company, Fairmont, W. Va.

No. 125. *Dakota No. 2.—Pittsburg Seam.—Shaft.*—This mine is located at Sparlan, two miles north of Fairmont, on the Paw Paw Branch of the B. & O. R. R. Depth of shaft is 194 feet. The coal is nine feet thick and of excellent quality. Mining has been abandoned in No. 1 mine, in the Sewickley coal, August 31, 1910. Compressed air punchers are used for undercutting the coal, the latter is blasted with permissible explosives, and hauled to the shaft bottom with string team, one shot-firer is employed. The roof is good, and timbering is carefully attended to. Drainage and ventilation are also good. A reversible blowing fan of twelve feet diameter is producing ample ventilation. Gases are liberating, accumulations are prevented. A competent fire boss is employed. Analyses of the mine are made periodically by the District Mine Inspector, for small percentages of explosive gases. Also readings to determine the percentage of humidity. Open lights are used. No fatal accidents have occurred at this mine during the past year, largely due to precautions exercised by officials and employees. A new tippie, several steam boilers, overcasts

brick stoppings, mileers homes, etc., have been completed. The requirements of the mining laws are complied with. This mine is well managed.

EDGAR B. ROWE, *Superintendent*.

HUGH MYERS, *Mine Foreman*.

Fairmont, W. Va. (P. O. Box 164) E. C. SEDEWELL, *Fire Boss*.

Dakota Mines R. F. D. No. 2.

NEW CENTRAL COAL COMPANY.

BAXTER, W. VA.

General Office of Company, Fairmont, W. Va.

No. 126. *Stafford Mine.—Pittsburg Seam.—Shaft.*—This mine is located at Baxter, on the Paw Paw Branch of the B. & O. R. R., operating in an eight foot seam of coal, of first class quality, at a depth of 256 feet, on the double entry system. The coal is mined with pick compressed air chain and puncher machines, blasted with permissible explosive and hauled to shaft bottom with compressed air locomotives. This system of hauling coal is economical and proving very satisfactory. Roof and timbering are good and carefully looked after. As there is little water in the mine, drainage is a minor problem. Ventilation has been very good during the past year, and is supplied by a reversible fan-blowing, of sixteen feet diameter. Explosive gases are liberating, but the necessary precautions are taken to render it harmless by ventilation. Competent fire bosses are on duty day and night, exchanging sections every week, this is being done to guard against any oversight of these bosses. Locked safety lamps are used exclusively. Coal dust is loaded out as far as practical, and the remainder is thoroughly watered down by forcing exhaust steam into the intake air. The percentage of moisture in the interior of the mine are ascertained with psychrometer periodically, by the mine foreman and district mine inspector. Usual improvements such as concrete stoppings and overcasts have been made. The officials have been fortunate in not having to report loss of life during the past year, which in a large measure is due to care exercised by officials and employees. This mine is in first class condition, and the requirements of the law are complied with in every particular.

DUNCAN SINCLAIR, *General Supt.*

THOMAS GLEASON, *Mine Foreman*.

Fairmont, W. Va.

STEVE SANDOR, *Asst. Mine Foreman*.

GEORGE S. PHILLIPS, *Superintendent*.

DAVID DAVIS, *Asst. Mine Foreman*.

Baxter, W. Va.

JOHN HORNYACK, *Fire Boss*.

CHAS. GREEN, *Fire Boss*.

FEDERAL COAL & COKE COMPANY.

GRANTTOWN, W. VA.

General Offices of Company, Boston, Mass. (111 Devonshire Street.)

No. 12. *Federal No. 1.—Pittsburg Seam.—Shaft.*—This is a shaft mine located at Granttown, on the Paw Paw Branch of the B. & O. R. R. Depth of shafts 256 feet. Excellent seam of coal, eight feet thick, is mined on the double entry system. Undercutting is done with pick and compressed air machines, blasting with permissible explosives, and hauling to shaft with electric motors. Competent shot-firers are employed. Roof, timbering and drainage are good. The quantity of air produced by an eight foot diameter reversible fan, blowing, connected by 48 in. belt to a 26 in. x 42 in. engine, has been largely increased during the past year, and is good. Explosive gases

are liberating, but the proper precautions are taken to render these harmless, by ventilation. Competent fire bosses are on duty day and night. Locked safety lamps are used exclusively. Coal dust is loaded out and what is left is thoroughly watered down by forcing exhaust steam into the intake air. The percentage of moisture in the interior of the mine are ascertained by the use of the psychrometer twice weekly, and reported by the mining engineers of the company, also by the district mine inspector at every inspection.

IMPROVEMENTS.

Surface.

1 8 ft. Reversible Fan, belt driven, connected by 48 in. belt to 26 x 42 engine. Maximum capacity 325000 cu. ft. of air per minute with 7 in. water gauge.

Under Construction.

2 300 horse power boilers. A 30 ft. brick addition to boiler house. 1 Cross Compound Low Stage Air Compressor 22 x 36 x 32 x 20 x 36 in. stroke. Capacity 3300 cu. ft. per minute, also 24 ft. brick addition to power house.

Buildings and Dwellings.

Completed two 8 room frame houses for officials and one church. Under construction, one 12 room Superintendent's house and two 6 room houses for officials.

Underground.

Replaced wood timbering and supports as approach to shaft bottom by concrete walls and steel, 1 beam for a distance of 200 feet.

Added to haulage equipment 75 new steel cars.

Built 77 permanent masonry stoppings and 8 overcasts.

This mine is well managed, and operated in compliance with the requirements of the law.

J. W. DEVISION, *Superintendent*,
Granttown, W. Va.

J. M. McKENNA, *Mine Foreman*,
J. H. POWELL, *Asst. Mine Foreman*,
CHAS. WILHELM, *Assistant M. F.*,
A. E. ROTHLSBERGER, *Fire Boss*,
JAMES MURPHY, *Fire Boss*,
ED. WINNING, *Fire Boss*.

PARKER RUN COAL & COKE COMPANY.

RIVESVILLE, W. VA.

No. 128. *Parker Run*.—*Sewickley Seam*.—*Drift*.—This mine is located one-fourth mile north of Rivesville, on the Monongahela river. The Sewickley seam of coal, of good quality, six feet thick is mined on the double entry system. Undercutting is done with compressed air puncher machines, blasting with black powder, and hauled to the tippie with string teams. Shot-firing is done under direction of mine foreman. Roof, timbering and drainage are good, also ventilation produced by an eighteen foot diameter blow fan. Gases are liberating in small quantities, but the necessary precautions are taken to render it harmless by ventilation. Fire boss is employed. Open lights are used. This mine had been idle, resumed operations July 10, 1911. Coal dust is thoroughly watered down, by forcing exhaust steam into the intake air. The percentages of moisture in the interior of the mine are determined by the use of the psychrometer, and recorded by the district mine inspector. Prior to July 1912, all coal shipments were made by river, but arrangements have

been made for shipment by rail. Improvements on tipple, ventilation and drainage have been made. Also the railroad tracts under coal tipple have been completed. A new boiler has also been installed. This mine is in good condition. The law is complied with.

J. H. MARTIN, *Superintendent*,
Riversville, W. Va.

W. F. ASH, *M. F. and Fire Boss*,

THE CONSOLIDATION COAL COMPANY, INC.

MONTANA, W. VA.

General Office of Company, Fairmont, W. Va.

No. 129, *Consolidation No. 24.—Pittsburg Seam.—Drift.*—This mine is located at Montana, on the Connellsville Branch of the B. & O. R. R., operating in a seven foot seam of excellent coal. The coal is mined on the double entry system, with pick and electric chain machines. A large percentage of pillar coal has been mined. Electric motors and endless rope deliver the coal to the tipple. Black powder is used for blasting, and the latter is done under direction of mine foreman and assistant. The roof is bad in places, timbering is very good. Drainage is good, and has been much improved during the past year. Ventilation produced by a twenty foot diameter exhaust fan gives satisfactory results. No explosive gases have ever been liberating, and open lights, mostly carbides are used. Coal dust is loaded out as far as practical and what remains is thoroughly watered down by forcing exhaust steam into the intake air. The safety of employees is carefully looked after. An emergency outlet was made at the rear end of the mine, by driving into Consolidation 73 Mine. A 7 ton electric locomotive has been installed. The mine opening was reconstructed and made of concrete and steel. Also a new blacksmith's shop was built. The fan has been reconstructed. This mine is well managed and operated in compliance with the requirements of the law in every particular.

H. H. WATSON, *General Manager*,
Fairmont, W. Va.

GEORGE HAMRICK, *Mine Foreman*,

H. M. SMITH, *Superintendent*,
Montana, W. Va.

THE PITTSBURG STEAM COAL COMPANY.

MONTANA, W. VA.

General Office of Company, Fairmont, W. Va.

No. 130, *Elizabeth Mine.—Pittsburg Seam.—Drift.*—This mine is located one-half mile north of Montana, on the Connellsville Branch of the B. & O. R. R., operating in an eight foot seam of splendid coal, on the double entry system. Undercutting coal is done with picks, blasting with black powder, and hauling to incline with string team. Copper tamping bars and needles are used. Shot-firing is directed by the mine foreman. Roof, timbering and drainage are good. Natural ventilation is good owing to favorable elevation between inlet and return air ways, and as no gases have been detected liberating, open lights are used, mostly carbides. Coal dust is loaded out as far as practical, and what remains is thoroughly watered down. This mine is well managed, in good condition, and operated in compliance with the requirements of the law in every particular.

JOSEPH R. BAILEY, *General Manager*,
Fairmont, W. Va.

SAM WINNIE, *Gen. Mine Foreman*,
 ELI STEWART, *Mine Foreman*.

THE VIRGINIA & PITTSBURG COAL & COKE COMPANY.

RIVESVILLE, W. VA.

No. 131. *Morgan Mine.—Pittsburg Seam.—Drift.*—This is a new mine. Located one and one-fourth mile north of Rivesville on the Monongahula river. The first shipments of coal were made July 5, 1911. The coal is from seven to eight feet in thickness and of the highest grade. The coal is mined with picks, blasted with black powder and hauled to railroad with string teams. Shot firing is directed by the mine foreman. Roof and drainage are good. Ventilation is produced by a twelve ft. diameter reversible fan, blowing, and is good. Open lights are being used. No explosive gases have been detected liberating. Coal dust is loaded out as far as practical, but what little remains is thoroughly saturated by forcing exhaust steam into the intake air. The permanent tippie has been completed, and is well arranged for dumping and preparing the coal for the market. Railroad tracks, miners homes, store and other necessary equipment has been completed. This plant appears attractive in every respect. Improvements inside of the mine such as overcasts, fire proof stoppings, etc., have been made. Due to careful management, no accidents have occurred. This mine is in first class condition and the law complied with in every respect.

R. M. HITE, *General Manager.*C. L. LAREW, *Mine Foreman.**Fairmont, W. Va.*M. C. HITE, *Superintendent.**Rivesville, W. Va.**CATAWBA COAL & COKE COMPANY.*

CATAWBA, W. VA.

General Office of Company, Connellsville, Pa.

No. 132. *Catawba Mine.—Pittsburg Seam.*—This is a Drift mine, located at Catawba, on the Connellsville Branch of the B. & O. R. R. A seven foot seam of high grade coal is mined on the double entry system. Undercutting coal is done with picks, no blasting is done. Hauling is done with string teams to top of incline. Shot-firing is done under direction of mine foreman. Natural ventilation is good owing to favorable elevation between main intake and return, also timbering is very good, drainage is good. Open lights are used, as there is no gas liberating. Coal dust is well watered. This mine is operated in compliance with the requirements of the mining law in every particular. Fortunately no accidents have occurred at this mine during the past year, which is largely due to careful management.

J. J. BUTTERMORE, *President.*G. T. RODEHEAVER, *Mine Foreman.**Connellsville, Pa.*G. T. RODEHEAVER, *Superintendent.**Catawba, W. Va.**THE CONSOLIDATION COAL COMPANY, INC.*

SCOTTTDALE, W. VA.

General Office of Company, Fairmont, W. Va.

No. 133. *Consolidation No. 45.—Pittsburg Seam.—Drift.*—This mine is located at Scottdale, on the Connellsville Branch of the B. & O. R. R. A splendid seam of coal seven feet thick is mined on the double entry system.

Undercutting coal is done with picks and electric chain machines, blasting with black powder, and hauling to railroad with string teams and endless rope. Shot-firing is directed by the mine foreman. Roof and timbering are good. Natural ventilation is also good, owing to very favorable elevation between the main intake and return air ways. This mine is naturally wet, owing to water entering through breaks in robbings. Open lights are used exclusively. A large percentage of the work is pillar robbing, and the recovery of coal has been good. The officials have been fortunate in not having to report the loss of life during the past year, largely due to good management. The requirements of the law are complied with, and the mine is in good condition.

H. H. WATSON, *General Manager*, C. E. SWISHER, *Mine Foreman*,
Fairmont, W. Va.

W. N. HESS, *Superintendent*,
Scottdale, W. Va.

THE CONSOLIDATION COAL COMPANY, INC.

ADAMSTON, W. VA.

No. 134. *Consolidation No. 82, (Nicholas Farm)—Pittsburg Seam.—Drift.* This mine is located at Adamston, W. Va., on the B. & O. Ry., operating a seven foot seam of coal. This is a very small mine employing from one to two miners and does not come under the jurisdiction of the Department of Mines.

The entire output is used for domestic purposes.

H. H. WATSON, *General Manager*,
Fairmont, W. Va.

SECOND DISTRICT.

GENERAL SUMMARY FOR THE SECOND MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	EMPLOYEES.										Production of		
	No. of Openings.	No. of Persons Killed.	Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,000 lbs.
Harrison.....	66	14	879	1,467	451	1,113	3,910	852	.....	852	4,762	4,529,344	.....
Lewis.....	1	.....	40	.....	.....	12	52	10	.....	10	62	40,057	.....
Upshur.....	3	1	57	22	4	10	93	28	.....	28	121	37,091	.....
Nicholas.....	5	.....	37	35	19	25	116	22	3	25	141	46,135	3,113
Greenbrier.....	1	.....	40	.....	.....	6	46	9	.....	9	55	52,358	.....
Total.....	76	15	1,053	1,524	474	1,156	4,217	921	3	924	5,141	4,704,984	3,113

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA,

Office of Second District Mine Inspector.

Clarksburg, W. Va., Aug. 27, 1912.

HON. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

Dear Sir:—I have the honor to submit for your consideration, in compliance with the Law, my Annual Report as District Mine Inspector for the Second Mining District of West Virginia for the year ending June 30, 1912.

While this District is composed of several counties which are centrally located in this State, a large majority of the operating mines are confined to Harrison County and are operating the Pittsburgh Seam of coal, which is a valuable coal for steam, domestic and coking purposes.

All reports of inspections, official visits, and accidents for the past year have been forwarded to your office. I am pleased to report to you that the operators, mine officials and miners in most cases, have cheerfully and vigilantly co-operated with the Mine Department during the past year in the prevention of accidents, and to one who is familiar with all the dangers incident to coal mining in this District, I feel that the past year's record should be rather gratifying, and I desire to express to all parties who have thus aided me my full appreciation and thanks.

The matter which is giving the most concern in the prevention of mine

disasters in this District is the numerous high pressure gas wells which have either penetrated the mines or are in dangerous proximity thereto. This condition prevails throughout this (Harrison) County and requires the utmost vigilance to prevent disasters from happening from gas escaping into the mines from defective casings, etc. Nearly all the Mine Foremen in this District hold certificates of competency from the Mine Department and the mines as a rule, are carefully managed in compliance with Law and good mining practices. We can attribute the increased interest of the Mine Foremen and Fire Bosses in caring for the safety of the mines to no other cause than to your ruling that they convince you of their competency by passing an examination before holding these responsible positions.

The number and size of the mines in this District, with the other duties imposed by Law on the Inspector, make it impossible for him to comply fully with Section two of the State Mine Law.

All the new mines opened during the past year in this District, you will find described under the head of the description of mines in the Second District except two which at this time are grading, etc., and have not reached that stage of development to justify.

In conclusion, I again desire to extend to the Operators, Mine Officials and coal miners of this District, my sincere thanks for assistance rendered me in having the Law complied with.

I also desire to thank you and the other officials connected with your office for the many courtesies, advice and assistance rendered me during the past year.

Yours very truly,

FRANK E. PARSONS,

Inspector Second District.

HARRISON COUNTY.
MARION GAS COAL COMPANY.

P. O. ENTERPRISE, W. VA.

Bingamon Mine—Pittsburg Seam—Drift, Electric Retard.

No. 201. This mine is located 20 miles north of Clarksburg, W. Va., on the West Side of the West Fork River, this stream being spanned by a steel viaduct and the coal is hauled across the river where it is dumped into the railroad cars. The mine is opened up on the double entry system and the ventilation is produced by a large centrifugal fan, and if properly distributed, is good throughout the entire development. The roof is of the usual character overlying the Pittsburg Seam, which requires careful timbering. The mine is inclined to be dry and dusty in sections and which necessitates artificial wetting. Explosive gas liberates at some of the working faces in small quantities, but has been well cared for by sufficient ventilation. The coal is undercut by electric machines of the chain type and is hauled to the foot of the retard plane by electric motor. The voltage being 500, is excessive and dangerous in case of contact with electric wires. However, the wires are well hung and the attention of the Company has been repeatedly called to the danger of the contact with these wires. Permissible explosives are used exclusively to blast the coal. However, these explosives are not handled in a safe manner on the

outside, in as much as they have not yet built a magazine. The attention of the Company's officials have been called to this matter by the Inspector. Otherwise State Mine Laws are being observed. The capacity of this mine increases with the developments made on the inside. Drainage is good.

ALEX COULTER, *General Manager*.

A. S. PARRISH, *Mine Foreman*.

J. B. WAITMAN, *Superintendent*.

JOHN BOYDO, *Mine Foreman*.

A. S. PARRISH, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. ENTERPRISE, W. VA.

No. 202, *Consolidated No. 49—Pittsburg Seam—Slope*.—This mine is located 19 miles north of Clarksburg, W. Va., on the banks of the West Fork River on the M. R. Division of the B. & O. Railroad. The main openings are on the triple entry system, while the other face and room entries are being developed on the double entry system. The ventilation is produced by a large centrifugal fan with direct steam connections. It is conducted to the working faces by substantial stoppings, over-casts, etc., the most of which are constructed of non-combustible material, and is good throughout the working section of the mine. The roof is of a rather dangerous character which requires careful daily attention as to timbering in the working places. Traces of gas have been found liberating heretofore at some of the advanced working faces. However, the quantity is very small and was well cared for by sufficient ventilation. The coal is undercut by electric chain machines and by picks. It is blasted by both permissible and black powder. It is gathered by mules and horses to the side tracks and from there it is hauled to the foot of the slope by electric motors. The dust is being cared for by artificial wetting in the dry sections of the mine. State Mine Laws are being observed. The capacity of this mine is about 1500 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

THOS. SMITH, *Mine Foreman*.

H. C. ICE, *Superintendent*.

JOHN WALTERS, *Mine Foreman*.

JOHN A. HARLOW, *Fire Boss*.

W. A. EVANS, *Fire Boss*.

C. N. REEVES, *Fire Boss*.

B. F. PIGOTT, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA.

No. 203, *Consolidated No. 65—Pittsburg Seam—Drift*.—This mine is located on the West Fork River 15 miles north of Clarksburg, W. Va., on the M. R. Branch of the B. & O. Railroad. The main openings are made on the tripple entry system while the other face and room entries are being developed on the double entry system. The ventilation is produced by a centrifugal fan with direct steam connections and is conducted to the working faces by means of substantial stoppings, over-casts, etc., the most of which are constructed of non-combustible material. The roof is of the usual character overlying the Pittsburg Seam in this region which requires careful timbering to prevent accidents. Small quantities of gas liberate at some of the advanced working faces, which is being cared for by sufficient ventilation. The coal is undercut by elec-

tric machines and hauled to the endless rope by electric motor where it is hoisted to the tippie and dumped into railroad cars. Dust is being cared for. The coal is blasted by both permissible and black powder. State Mine Laws are being observed. The capacity of this mine is about 800 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

J. H. NUZUM, *Superintendent*.

U. B. BLAKESMITH, *Mine Foreman*.

WILLIAM LEWIS, *Mine Foreman*.

J. E. MASON, *Fire Boss*.

GLEN TOOTHMAN, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. GYPSY, W. VA.

No. 204. *Consolidated No. 21—Pittsburg Seam—Drift.*—This mine is located on the West Fork River 12 miles north of Clarksburg, W. Va., on the M. R. Division of the B. & O. railroad. The main openings are developed on the triple entry system while the other face and room entries are developed on the double entry system. The ventilation is produced by a large centrifugal fan with direct steam connections and is distributed to the working faces by means of substantial stoppings, over-casts, etc., the majority of which are constructed of non-combustible material. The roof is of the usual nature overlying the Pittsburg Seam which requires careful daily attention as to timbering in the working places to prevent accidents. Small quantities of gas liberate at a few of the working faces, which is being well cared for by sufficient ventilation. The coal is undercut by machines of the electric type and with picks. It is being blasted by both permissible and black powders. It is being gathered to the side tracks by horses and mules and from there it is hauled to the junction on the inside with electric motors and from there to the tippie by means of endless rope and grip cars. State Mine Laws are being well observed. The capacity of this mine is about 600 tons daily. Drainage has been greatly improved and is good at this time.

H. H. WATSON, *Manager*.

A. V. MORGAN, *Superintendent*.

LUTHER KING, *Mine Foreman*.

F. E. GIROD, *Mine Foreman*.

WYATT ROUSH, *Mine Foreman*.

ELLSWORTH TUCKER, *Asst. M. Foreman*.

JOHN QUINN, *Fire Boss*.

GODFREY SHAFFER, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. GYPSY, W. VA.

No. 204. *Consolidated No. 77—No. 7 Mine—Pittsburg Seam—Drift.*—This mine is located on the West Fork River 12 1-2 miles north of Clarksburg, W. Va., on the M. R. Division of the B. & O. railroad. It is opened up on the double entry system and the ventilation is produced by a 7 foot disc fan with electric connections, which is being distributed to the working places by a system of substantial stoppings, doors, etc., and is good throughout the development. The roof requires careful daily attention as to timbering to prevent accidents. The coal is undercut by electric machines and by picks. It is gathered to the side tracks by mules and horses and from there it is hauled to the junc-

tion in No. 21 mine, these two mines being connected under ground. From there it is hoisted and dumped in connection with the output of No. 21. Traces of explosive gas have been discovered liberating from the faces in some of the places heretofore. However, the quantity is very small and well cared for. No dust found. The coal is blasted by both permissible and black powder. State Mine Laws are being observed. The capacity of this mine is about 600 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

A. V. MORGAN, *Superintendent*.

F. E. GIROD, *Mine Foreman*.

WYATT ROUSH, *Mine Foreman*.

JACK SUMMERS, *Asst. M. Foreman*.

JOHN QUINN, *Fire Boss*.

GODFREY SHAFFER, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. MEADOWBROOK, W. VA.

No. 205. *Consolidated No. 55—No. 1 Mine—Pittsburg Seam—Drift*.—This mine is located on Simpson Creek 9 miles north of Clarksburg, W. Va., on a branch of the M. R. Division of the B. & O. Railroad. It is opened up on the double entry system and the ventilation at this time is produced by a large centrifugal fan with direct steam connections. This fan has been installed during the past year. The ventilating current is conducted to the working faces by means of substantial stoppings, over-casts, etc., and is good throughout the development. The roof is of a very treacherous nature in some sections of this mine, especially along the Main Haulway, which requires special attention as to timbering. No gas liberates and no dust of dangerous character found. The coal is undercut by electric machines and picks. It is blasted by black powder and some permissible powders are used also. The coal is gathered to the side tracks by means of mules and horses and from there it is hauled to the tipple by electric motor where it is dumped into Railroad cars. State Mine Laws are being observed. The capacity of this mine is 600 tons daily. The drainage is a little difficult, yet fairly good.

H. H. WATSON, *Manager*.

C. D. POWELL, *Mine Foreman*.

THOS. JARRETT, JR., *Superintendent*.

THE CONSOLIDATION COAL COMPANY.

P. O. MEADOWBROOK, W. VA.

No. 205. *Consolidation No. 55—No. 2 Mine—Pittsburg Seam—Drift*.—This mine is located 9 miles north of Clarksburg, W. Va., on Simpson Creek and is connected underground with No. 1 mine. The ventilation at this mine is produced by the large fan described in the report on No. 1 mine. This mine is practically at this time a section only of No. 1 mine, it being under the same management and practically the same conditions prevailing as described in the report of No. 1 mine. Drainage is good.

H. H. WATSON, *Manager*.

C. D. POWELL, *Mine Foreman*.

THOS. JARRETT, JR., *Superintendent*.

THE CONSOLIDATION COAL COMPANY.

P. O. GLEN FALLS, W. VA.

No. 206. *Consolidation No. 27—Pittsburg Seam—Drift*.—This mine is locat-

ed on the West Fork River 5 miles north of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. The main openings are developed on the triple entry system while the room entries are developed on the double entry system. The ventilation is produced by a centrifugal fan with electric connections. It is conducted to the working places by means of substantial stoppings, over-casts, etc., and is good throughout the development. No gas is found, nor dust of any consequence. The roof requires careful attention as to timbering to prevent accidents. The coal is undercut by picks and electric machines. It is blasted by permissible and black powder, gathered to the side tracks on the interior by horses and mules and from there it is hauled by electric motor to the tippie where it is dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 800 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

WALTER MILLER, *Mine Foreman*.

LUKE MURRAY, *Supt.*

WM. ASHCRAFT, *Mine Foreman*.

THE CONSOLIDATION COAL COMPANY.

P. O. HAYWOOD, W. VA.

No. 207. *Consolidated No. 54—Pittsburg Seam—Drift Engine Plane*.—This mine is located on the West Fork River 12 miles north of Clarksburg, W. Va., on a branch off of the Short Line Division of the B. & O. Railroad. The development is made on the double entry system and the ventilating current is produced by a centrifugal fan with direct steam connection. It is conducted to the working places by means of stoppings, doors, etc. The roof is unusually bad and requires very careful attention as to timbering to prevent accidents. The coal is undercut by electric machines and by picks and is blasted by permissible explosives and some black powder is also used. It is gathered to the rope by horses and mules where it is lowered by engine plane to the tippie and dumped into railroad cars. Slight traces of gas have been discovered liberating at some of the working faces, but these are being taken care of by sufficient ventilation. No dust of dangerous character is found in the mine at this time. State Mine Laws are being observed. The capacity of this mine is about 700 tons daily. The drainage is difficult in some sections, yet fairly good.

H. H. WATSON, *Manager*.

JOHN NOLAN, *Mine Foreman*.

A. C. ICE, *Superintendent*.

OLIVER BUSH, *Mine Foreman*.

MIKE SANGELO, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. ADAMSTON, W. VA.

No. 208. *Consolidation No. 62—Pittsburg Seam—Drift Incline*.—This mine is located on the West Fork River 2 1-2 miles West of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. It is developed on the double entry system. A 10 foot disc fan produces the ventilating current which is conducted to the working places by substantial stoppings, over-casts, etc. The roof in some sections of the mine is very bad and requires very careful attention to prevent accidents from falls of slate. Some gas has been found liberating, which is being taken care of by sufficient ventilation. No dust of dangerous

character found in the mine. The coal is undercut by machines of the electric chain type and is hauled by mules and horses to the head of the plane where it is lowered by traction to the tippie and dumped into the Railroad cars. Blasting is done principally with permissible explosives. State Mine Laws are being observed. The capacity of this mine is about 500 tons daily. The drainage is bad in some of the important working sections.

H. H. WATSON, *Manager*.

DAN OLDBROYD, *Mine Foreman*.

C. E. GASKILL, *Superintendent*.

J. WINDEN, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA., R. F. D.

No. 209. *Consolidation No. 32—No 1 mine—Pittsburg Seam—Drift.*—This mine is located 18 miles north of Clarksburg, W. Va., on Mud Lick Run on a branch off of the M. R. Division of the B. & O. Railroad. The main entries are being developed on the triple system while the room entries are developed on the double system. The ventilation is produced by a large centrifugal fan with direct steam connections. It is being conducted to the working faces by means of substantial stoppings, over-casts, etc., and is ample throughout the development. The roof is of the usual character overlying the Pittsburg Seam, which requires careful timbering to prevent accidents. No gas has been found within the past year. In some sections of the mine a little dust is found which is being cared for. The coal is undercut by electric machines. It is blasted by both permissible and black powder. It is hauled to the tippie by electric motors, and is dumped into the railroad cars. State Mine Laws are being observed. The capacity of this mine is from 1200 to 1500 tons daily. The drainage is good throughout.

H. H. WATSON, *Manager*.

E. G. VINCENT, *Mine Foreman*.

JOSIAH KEELY, *Superintendent*.

W. E. SHUTTLEWORTH, *Asst. M. F.*

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA., R. F. D.

No. 209. *Consolidation No. 32—No. 2 mine—Pittsburg Seam—Drift.*—This mine is located 18 miles north of Clarksburg, W. Va., on Mud Lick Run on a branch off of the M. R. Division of the B. & O. Railroad. The ventilation is produced by a 7 foot disc fan of the Stine type with electric connections. It is conducted to the working faces by servicable stoppings, over-casts, etc. The roof is carefully looked after as to timbering to prevent accidents. The coal is undercut by electric machines. It is blasted by both permissible and black powders and is hauled to the No. 1 tippie via bridge spanning the ravine, where it is dumped into railroad cars in connection with the output of No. 1 mine. Dust is looked after and no gas found in the mine. State Mine Laws are observed. The capacity of the mine is about 1200 tons daily. The drainage is good throughout.

H. H. WATSON, *Manager*.

E. G. VINCENT, *Mine Foreman*.

JOSIAH KEELY, *Superintendent*.

W. E. SHUTTLEWORTH, *Asst. M. F.*

THE CONSOLIDATION COAL COMPANY.

P. O. WILSONBURG, W. VA.

No. 210. *Consolidation No. 35—1, 2, 3 and 4 mines—Pittsburg Seam—Drift.*

These mines are located 5 miles West of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. The No. 4 mine, the one which is now operating, is opened up on the double entry system. The ventilation at the present time is being produced by an electric fan (there is also another fan installed at this mine which was formerly used to ventilate the workings, which has direct steam connections). The ventilating current is conducted to the working faces by means of substantial stoppings, over-casts, etc., and is good throughout the development. No gas is found, and no dust of any consequence. The coal is undercut by both electric chain machines and compressed air punchers. It is gathered to the side tracks by mules and horses and from there during the latter part of the year it has been hauled by electric motor to the tippie, where it is dumped into the railroad cars. Permissible explosives are used exclusively to blast the coal. State Mine Laws are being observed. This mine is capable of producing 1200 tons daily. The drainage is good in all working sections.

H. H. WATSON, *Manager*.

L. E. DORSEY, *Superintendent*.

PAUL GIBB, *Mine Foreman*.

J. T. MARTIN, *Mine Foreman*.

LOCK VINCENT, *Fire Boss*.

W. M. BENNETT, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. CLARKSBURG, W. VA., R. F. D.

No. 211. *Consolidation No. 29—Pittsburg Seam—Drift*.—This mine is located 2 miles East of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is developed on the double entry system and the ventilation is produced by a centrifugal fan with steam connection and is conducted to the working faces by a system of substantial stoppings, over-casts, etc. The roof is of the usual character overlying the Pittsburg Seam, which requires careful attention as to timbering to prevent accidents from falls of slate. Small quantities of gas liberated heretofore from some of the working faces, which was taken care of by sufficient ventilation. The coal is undercut by compressed air machines of the puncher type, which will be displaced by electric machines. It is gathered and hauled to the rope by means of horses and mules and from there it is hauled to the outside via engine plane to the tippie where it is dumped into railroad cars. Both permissible and black powder is used to blast the coal. State Mine Laws are being observed. This mine is capable of producing 1500 tons daily. The drainage is good in working places.

H. H. WATSON, *Manager*.

MIKE ROONEY, *Mine Foreman*.

A. W. RAPP, *Superintendent*.

THE CONSOLIDATION COAL COMPANY.

P. O. CLARKSBURG, W. VA., R. F. D.

No. 212. *Consolidation No. 58—Pittsburg Seam—Drift*.—This mine is located on the Parkersburg Branch of the B. & O. Railroad 1 1/2 miles East of Clarksburg, W. Va. The mine is opened on the double entry system and the ventilation is produced by an electric fan of the disc type which is conducted to the working faces by substantial stoppings and is good throughout the

development. The roof requires careful daily attention to prevent accidents in the working places. The coal is undercut by electric machines, gathered to the side tracks by mules and horses and hauled to the outside by electric motor, where it is hoisted on to the tippie by electric retard and dumped into railroad cars. No gas is found and the mine is practically free from dust of a dangerous character. State Mine Laws are observed. Both permissible and black powders are used to blast the coal. This mine is capable of producing 1000 tons daily. The drainage is good throughout.

H. H. WATSON, *Manager*.

GEORGE BROOKS, *Mine Foreman*.

A. W. RAPP, *Superintendent*.

L. E. HENDERSON, *Mine Foreman*.

THE CONSOLIDATION COAL COMPANY.

P. O. LEWIS, W. VA.

No. 213. *Consolidation No. 46—Pittsburg Seam—Drift Incline*.—This mine is located on the West Fork River 6 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It was formerly being developed on the double entry system and the ventilation was produced by an electric fan. The mine has been abandoned during the past year.

H. H. WATSON, *Manager*.

LOWELL CHILDS, *Superintendent*.

L. C. KEENER, *Superintendent*.

SWIGER COAL COMPANY.

(Charged to Johnson-McIntire Coal Co.)

P. O. ROSEBUD, W. VA.

No. 214. *Gilbert Mine—Pittsburg Seam—Drift Incline*.—This mine is located on Ten Mile Creek 14 1-2 miles North-west of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. The development is made on the double entry system and the ventilation is produced by natural and by furnace. Wooden stoppings are used to conduct the current to the working faces. The roof is unusually bad and requires very careful attention daily as to timbering. No gas or dust in the mine. The undercutting is done by picks. The coal is blasted by permissible explosives and hauled to the head of the plane by mules and horses where it is lowered to the tippie and dumped into railroad cars. State Mine Laws are observed. This mine is capable of producing 200 tons daily and will increase as developments are made. The drainage is difficult in some working places.

STANLEY SWIGER, *Supt. and General Manager*, for Swiger Coal Co.,

GEORGE AUSTIN, *Supt. and General Manager* for the Johnson-McIntire Coal Co.

CAM SWIGER, *Mine Foreman*.

JOHN ANDERSON, *Mine Foreman*.

DANIEL COAL COMPANY.

P. O. LUMBERPORT, W. VA.

No. 215. *Goecke No. 2 mine—Pittsburg Seam—Drift Incline*.—This mine is located 12 3-4 North-West of Clarksburg, W. Va., on Ten Mile Creek on the Short Line Division of the B. & O. Railroad. The development is on the double entry system and the ventilating current is produced naturally, as there

are numerous holes to the outcrop and the development is small. The roof is bad and requires careful attention as to timbering. No gas or dust found in the mine. The coal is undercut by picks, hauled to the head of the plane by mules and horses and lowered by traction to the tippie where it is dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 200 tons daily. The drainage is good.

V. E. GOCKE, *General Manager and Superintendent.*

L. L. GIBSON, *Mine Foreman.*

H. L. HUBER, *Mine Foreman.*

O. A. GRAY, *Mine Foreman.*

DUQUESNE COAL COMPANY.

P. O. REYNOLDSVILLE, W. VA.

No. 216. *Phocair Mine—Pittsburg Seam—Slope.*—This mine is located 7 1-2 miles West of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by a disc fan with steam connections and is conducted to the working faces by wooden stoppings. The roof is unusually bad and requires very careful attention as to timbering. Gas liberates at some of the advanced working faces. This mine has operated very irregularly during the past year. The Inspector has had some difficulty in having the law complied with. On account of the numerous falls, etc., it is hard to estimate the capacity of the mine. The drainage is bad in some sections.

CHARLES. T. MOORE, *General Manager.*

M. MANNIX, *Supt. and Mine Foreman.* J. H. GRAY, *Fire Boss.*

JAMES HOWE, *Supt. and Mine Foreman.* TOM McDONNELL, *Fire Boss.*

ORR COAL MINING COMPANY.

P. O. WILSONBURG, W. VA.

No. 217. *Miller No. 1 Mine—Pittsburg Seam—Drift Incline.*—This mine is located 4 miles West of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by furnace and also by natural means as there are numerous holes to the outside. The roof is very bad and requires very careful daily attention as to timbering to prevent accidents. No gas or dust found. The coal is undercut by picks, and very little blasting is required to dislodge the coal. It is gathered and hauled to the head of the plane by horses and mules where it is lowered to the foot of the hill by traction plane and from there it is hauled to the tippie by steam locomotive and dumped into railroad cars. This mine has operated very irregular during the past year. The capacity of the mine is small and hard to estimate on account of abnormal conditions, etc. The drainage is good.

J. M. ORR, *General Manager.*

F. E. DAWSON, *Supt. and Mine Foreman.*

WILLIAM REID, *Supt. and Mine Foreman.*

ORR COAL MINING COMPANY.

P. O. WILSONBURG, W. VA.

No. 217. *Miller No. 2 mine—Pittsburg Seam—Drift Incline.*—This mine is

located 4 miles West of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. The openings are made on the double entry system. The ventilation for the greater part of last year was produced by natural means, but at the present time is being produced by a disc fan with electric connections, and is conducted to the working faces by wooden stoppings. The roof is very bad and requires very careful attention as to timbering to prevent accidents. No gas or dust in dangerous quantities found in the mine. The coal is undercut by electric machine of the chain type, gathered and hauled to the head of the plane by horses and mules and from there it is lowered to the foot of the hill by traction plane and hauled in conjunction with the output of No. 1 mine by steam locomotive to the tippie and dumped into railroad cars. The capacity of this mine is about 400 tons daily. Some little trouble has been experienced in having the State Mine Laws observed. The drainage is bad along haulway.

J. M. ORR, *General Manager.* ~

F. E. DAWSON, *Supt. and Mine Foreman.*

MADERIA-HILL-CLARK COAL COMPANY.

P. O. WILSONBURG, W. VA.

No. 218. *Randolph Mine—Pittsburg Seam—Drift.*—This mine is located 6 miles West of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. The main entries are developed on the triple entry system. The room entries developed on the double entry system. The ventilation for the greater part of the year was produced by a small high speed fan of the J. R. Robinson type with steam connections. This fan being temporarily installed until such time as the Company could make the necessary openings for the permanent installation of a large centrifugal fan, which is now in operation. The ventilating current is conducted to the working places by means of substantial stoppings, over-cast, etc. The roof is bad and requires careful attention as to timbering. No. gas liberates in the mine. Some sections are inclined to be dry and dusty and requires attention as to wetting. The coal is undercut by machines of both types—compressed air and electric. Permissible explosives are used to blast the coal. It is gathered to the side tracks on the inside by horses and mules and from there it is hauled to the tippie by electric motor and dumped into Railroad cars. State Mine Laws are observed. This mine is capable of producing about 1500 tons daily. The drainage is good.

JOHN A. CLARK, *General Manager.* A. G. COBURN, *Mine Foreman.*

J. M. HICKS, *Superintendent.* W. H. AETIS, *Mine Foreman.*

MADERIA-HILL-CLARK COAL COMPANY.

P. O. WILSONBURG, W. VA.

No. 219. *New Chiefton Mine—Pittsburg Seam—Drift.*—This mine is located 6 miles West of Clarksburg on the Parkersburg Branch of the O. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by a centrifugal fan with steam connection. This mine has been operated but very little during the past year, and at this time is not in operation. The roof is very bad.

There are numerous falls at the present time by reason of irregular operation. When the mine is in operation, the coal is undercut by electric machines and

hauled to the tippie by electric motor. This is a twin tippie which spans the ravine which separates this mine from the Randolph mine. It is dumped into Railroad cars in connection with the output of Randolph mine over the same tippie. State mine Laws were observed. On account of the condition of the mine at the present time, the capacity cannot be estimated. The drainage is bad at present.

JOHN A. CLARK, *General Manager.*

A. G. COBURN, *Mine Foreman.*

J. M. HICKS, *Superintendent.*

W. H. ARTIS, *Mine Foreman.*

THE CONSOLIDATION COAL COMPANY.

P. O. HAYWOOD, W. VA.

No. 220. *Consolidation No. 32.—Pittsburg Seam.—Drift.* This mine is located on the West Fork River 12 miles North of Clarksburg, W. Va., on a branch off of the Short line Division of the B. & O. Railroad. It is developed on the double entry system. The ventilating current is produced by a disc fan with electric connections and is conducted to the working places by means of substantial stoppings, over-casts, etc. The roof is unusually bad and requires careful attention as to timbering. Traces of gas have heretofore been found liberating at some of the facts. However, the quantity was small and was being cared for with sufficient ventilation. No dust of any consequence. The coal is undercut with electric machines, gathered to the side tracks by horses and mules from where it is hauled by electric motor to the tippie and dumped into Railroad cars. State Mine Laws are being observed. This mine is capable of producing 600 tons daily. Permissible explosives are being used to blast the coal. The drainage is good.

H. H. WATSON, *Manager.*

A. C. ICE, *Superintendent.*

LAWRENCE DENT, *Mine Foreman.*

WALTER F. ROWE, *Mine Foreman.*

HARRY VANDERVORT, *Fire Boss.*

JOHN E. DENT, *Fire Boss.*

THE CONSOLIDATION COAL COMPANY.

P. O. CLARKSBURG, W. VA., R. F. D.

No. 221. *Consolidation No. 25.—Pittsburg Seam.—Drift.* This mine is located in the suburbs of Clarksburg, W. Va., 1 mile East of the Court House on the Parkersburg Branch of the B. & O. Railroad. The main entries are developed on the tippie entry system while other face entries and all of the room or butt entries are being developed on the double system. The ventilation is produced by a large fan with steam connections. It is conducted to the working places by means of substantial stoppings, over-casts, etc., and is good throughout the working section of the mine. The roof is rather good for that overlying the Pittsburg Seam of coal in this Region and is well looked after as to the timbering to prevent accidents. No gas found, nor dust of any consequence. The coal is undercut by electric machines and is blasted by both black powder and permissible explosives. It is gathered and hauled to the side tracks on the interior with mules and horses and from there to the junction with electric motors. From there it is hoisted via engine plane to the tippie by means of endless rope and grip cars. State Mine Laws are well observed. The capac-

ity of this mine is about 1800 tons daily. The drainage is difficult, yet kept in as good condition as possible.

H. H. WATSON, *Manager*.

JOHN RIGGINS, *Superintendent*.

THOMAS POLLOCK, *Mine Foreman*.

WALTER JENNINGS, *Asst. M. Foreman*.

THE CONSOLIDATION COAL COMPANY.

P. O. FARNUM, W. VA.

No. 222. *Consolidation No. 33—Pittsburg Seam.—Drift Incline.* This mine is located on the West Fork River $6\frac{1}{2}$ miles North of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. It is opened on the double entry system. The ventilating current is produced by a disc fan with electric connections. It is conducted to the working faces by means of substantial stoppings, over-casts, etc., and is good throughout the development. The roof is of the usual dangerous character which overlies the Pittsburg Seam and requires careful daily attention as to timbering to prevent accidents. No gas is found and but very little dust. The coal is undercut by electric machines and picks and is blasted with both black powder and permissible explosives. It is gathered and hauled to the side tracks by mules and from there by electric motor to the drift mouth at the head of the plane, where it is lowered by traction to the tippie and dumped into Railroad cars. State Mine Laws are being observed. This mine is capable of producing 600 or 700 tons daily. The drainage is in good condition.

H. H. WATSON, *Manager*.

P. J. McANDREW, *Superintendent*.

GEORGE KENDRICK, *Mine Foreman*.

M. A. HALEY, *Mine Foreman*.

THE CONSOLIDATION COAL COMPANY.

P. D. LEWIS, W. VA.

No. 223. *Consolidation No. 39.—Pittsburg Seam.—Drift.* This mine is located on the West Fork River $6\frac{1}{2}$ miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. The openings are made on the double entry system. The ventilation is produced by a disc fan with electric connections. It is conducted to the working faces by substantial stoppings, over-casts, etc., and is fairly good throughout the development. Some gas liberates from some of the working faces. The quantity is small however, and has been looked after carefully. The roof is very bad and requires careful attention as to timbering to prevent falls of slate, accidents etc. The coal is undercut by electric machines and blasted with permissible explosives. It is gathered and hauled to the side tracks by mules and horses and from there to the tippie, which is located about $\frac{1}{2}$ mile from the drift mouth, by electric motor. State Mine Laws are being observed. The mine is capable of producing 100 tons daily. The drainage is in good condition.

H. H. WATSON, *Manager*.

L. C. KEENER, *Superintendent*.

LOWELL CHILDS, *Superintendent*.

W. F. ASH, *Mine Foreman*.

T. M. BROWN, *Mine Foreman*.

U. B. BLAKESMITH, *Mine Foreman*.

F. L. WATSON, *Fire Boss*.

U. B. BLAKESMITH, *Fire Boss*.

JOHN JONES, *Fire Boss*.

RIGHTER COAL & COKE COMPANY.

P. O. LOST CREEK, W. VA.

No. 224. *Righter No. 1.—Redstone Seam—Drift Incline.* This mine is located $12\frac{1}{2}$ miles South of Clarksburg, W. Va., on Lost Creek. It is opened up on the double entry system. The ventilation is produced by a disc fan and is conducted to the working faces by means of substantial stoppings. The roof as usual, overlying this seam of coal, is good, except where clay veins are encountered and in these places the roof is very bad. No gas liberates from the coal. The coal is undercut by picks, gathered by mules and horses to the head of the plane, where it is lowered by traction and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine will increase as developments are made. The drainage is good.

A. C. LIENRING, *General Manager.*B. H. MONROE, *Superintendent.*GRANT WHITE, *Mine Foreman.**RIGHTER COAL & COKE COMPANY.*

P. O. LOST CREEK, W. VA.

No. 224. *Righter No. 2.—Pittsburg Seam.—Drift.* This mine is located $12\frac{1}{2}$ miles south of Clarksburg, W. Va., on Lost Creek. It is opened up on the double entry system. The ventilation so far has been produced naturally as the development is very small and but very little work done during the past year. At this time this mine is not in operation. When work is resumed it will be carried on as described in last years' report.

A. C. LIENRING, *General Manager.*B. H. MONROE, *Superintendent.*GRANT WHITE, *Mine Foreman.**RIGHTER COAL & COKE COMPANY.*

P. O. LOST CREEK, W. VA.

No. 224. *Righter No. 3.—Pittsburg Seam.—Drift.* This mine is located $33\frac{1}{4}$ miles South-West of Clarksburg, W. Va., on the waters of Lost Creek on a branch off of the W. Va. & P. Division of the B. & O. railroad. There has practically no work been done at this mine since date of last report. When work is resumed, it will be carried on as reported in last year's report.

A. C. LIENRING, *General Manager.*B. H. MONROE, *Superintendent.*GRANT WHITE, *Mine Foreman.**THE CONSOLIDATION COAL COMPANY.*

P. O. VIROPA, W. VA.

No. 225. *Consolidation No. 40—Pittsburg Seam—Drift.* This mine is located on the West Fork River 18 miles north of Clarksburg, W. Va., on the M. R. Divison of the B. & O. railroad. It is opened up on the double entry system. The ventilation is produced by a centrifugal fan with electric connections. The current is conducted to the working faces by substantial stoppings, over-casts, etc. The roof is of the usual character which requires very careful daily attention as to timbering to prevent falls, accidents, etc. The mine is practically free of gas as only very slight traces has ever been found. The dust requires some attention. The coal is undercut by electric machines and is blasted by both permissible and black powders. It is gathered and hauled to

the side tracks by horses and mules and from there to the tippie by electric motor where it is dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 1200 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

BLAND COURTNEY, *Superintendent*.

NATHAN McMASTERS, *Mine Foreman*

JOHN QUINN, *Mine Foreman*

JOHN QUINN, *Fire Boss*.

O. M. VANSOY, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA., R. F. D.

No. 226. *Consolidation No. 42—Pittsburg Seam.—Drift Electric Retard.* This mine is located on Robinsons Run, a small tributary of the West Fork River, 13½ miles north of Clarksburg, W. Va., on a branch off of the Short Line Division of the B. & O. railroad. The main openings are developed on the tripple entry system while the other face and room entries are developed on the double entry system. The ventilation is produced (temporarily) by a 7 foot disc fan with steam connections. However, the Company at the end of this year, is going to install a large fan. The current is conducted to the working faces by good substantial stoppings, over-casts, etc. The roof is bad in some sections of the mine and requires very great attention as to timbering to prevent falls, accidents, etc. Gas liberates in small quantities in numerous working places in the mine. However it is being well cared for. Dust also requires considerable attention to prevent dangerous accumulations. The coal is undercut by electric machines and the blasting is done by permissible explosives exclusively. The coal is gathered and hauled to the side tracks on the interior by mules and horses and from here to the retard at the drift mouth by electric motor, where it is hoisted and dumped into Railroad cars. State Mine Laws are being observed. The capacity of this mine is about 1200 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

J. H. BAINBRIDGE, *Superintendent*.

ADAM GROSS, *Mine Foreman*.

LUTHER KING, *Mine Foreman*

SAM CUNNINGHAM, *Fire Boss*.

ARTHUR STURM, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. GLEN FALLS W. VA.

No. 227. *Consolidation No. 70.—Pittsburg Seam.—Drift.* This mine is located on the West Fork River 5 miles North of Clarksburg, W. Va., on the M. R. Division of the B. & O. railroad. It has not run any coal during the past year.

H. H. WATSON, *Manager*.

LUKE MURRAY, *Superintendent*.

THE CONSOLIDATION COAL COMPANY.

P. O. INTERSTATE, W. VA.

No. 228. *Consolidation No. 44.—Mine No. 1.—Pittsburg Seam—Drift In-*

cline. This mine is located 8 miles South of Clarksburg, W. Va., on Browns Creek on the W. Va. & P. Division of the B. & O. railroad. The openings are made on the double entry system. The ventilation is produced by a disc fan with electric connections and is conducted to the working places by substantial stoppings. The roof is rather bad and requires careful attention to prevent falls, accidents, etc. No gas liberates and no dust of any consequence. The coal is undercut by electric machines and gathered and hauled to the head of the plane by horses and mules and from there it is lowered by traction to the tippie and dumped into railroad cars. State Mine laws are being observed. Permissible explosives are used. The capacity of this mine is about 700 tons daily. The drainage is good.

H. H. WATSON, *Manager.*

G. W. ELIASON, *Superintendent.*

P. B. ROBINSON, *Superintendent.*

G. W. ELIASON, *Mine Foreman.*

NATHAN McMASTERS, *Mine Foreman.*

THE CONSOLIDATION COAL COMPANY.

P. O. GLEN FALLS W. VA.

No. 229. *Consolidation No. 48.—Pittsburg Seam.—Drift.* This mine is located on Fall Run, a small tributary of West Fork River, 3 miles North of Clarksburg, W. Va., on a branch off of the M. R. Division of the B. & O. Railroad. It is opened up on the double entry system and the current which ventilates the mine workings is produced by a 7 foot disc fan with electric connections. It is conducted to the working faces by wooden stoppings. The roof is of the usual character of that which overlies the Pittsburg Seam and requires careful attention as to timbering to prevent accidents from happening from falls of slate, etc. No gas of any consequence ever found in this mine. Dust is being cared for. The coal is undercut by electric machines and with picks. It is gathered and hauled to the side tracks on the interior by horses and mules and from there to the tippie by electric motor where it is dumped into Railroad cars. Both permissible and black powders used to blast the coal. State Mine Laws are being observed. The capacity of this mine is about 1000 tons daily. The drainage is difficult in sections, yet looked after.

H. H. WATSON, *Manager.*

LUKE MURRAY, *Supt.*

WALTER MILLER, *Mine Foreman.*

CLAUDE ADDISON, *Mine Foreman.*

C. N. REEVES, *Mine Foreman.*

THE CONSOLIDATION COAL COMPANY.

P. O. ADAMSTON, W. VA.

No. 230. *Consolidation No. 50—No. 1 Mine.—Pittsburg Seam—Drift.* This mine is located on Mines Run, a tributary to the West Fork River, 3 miles West of Clarksburg, W. Va., on a branch off of the Short Line Division of the B. & O. Railroad. The development is made on the double entry system and the current which ventilates the workings is produced by a centrifuge fan with direct steam connections. The roof is unusually bad and requires careful daily attention as to timbering in the working places, etc., to prevent accidents from happening from falls of slate. Slight traces of gas only liberate in a few places in the mine, which is being cared for by sufficient ventilation. No dust

found. The coal is undercut by electric machines, blasted by permissible explosives exclusively, gathered to the side tracks by mules and horses and hauled to the tippie by electric motor as described in report on No. 2 mine. State Mine Laws are being observed. The capacity of this mine is about 800 tons daily. Drainage well looked after.

H. H. WATSON, *Manager*.

C. E. GASKILL, *Superintendent*.

O. M. VANSOY, *Mine Foreman*.

DAVID WILKINS, *Mine Foreman*.

O. J. FETTY, *Fire Boss*.

LAWRENCE HENRY, *Fire Boss*.

M. A. CURRAN, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. ADAMSTON, W. VA.

No. 230. *Consolidation No. 50—No. 2 Mine—Pittsburg Seam—Drift*. This mine is located on Mines Run, a small tributary of the West Fork River, on a branch off of the Short Line Division of the B. & O. Railroad. The development is on the double entry system and the current which ventilates the mine workings is produced by a centrifugal fan with direct steam connection. It is conducted to the working faces by means of substantial stoppings, over-casts, etc. The roof is bad and requires careful timbering to prevent accidents resulting from falling slate. Very slight traces only of gas liberates at some of the working places and no dust of any consequence in the mine. The coal is undercut by electric machines and permissible explosives are used exclusively for blasting the coal, which is gathered to the side tracks on the interior of the mine by mules and horses and from there it is hauled to the tippie with an electric motor. This tippie is of the twin type that spans the ravine which separates it from the No. 1 mine, the output of the two mines are dumped into railroad cars in connection with each other. State Mine Laws are being observed. The mine is capable of producing 1200 tons daily. The drainage is difficult, but looked after.

H. H. WATSON, *Manager*.

C. E. GASKILL, *Superintendent*.

O. M. VANSOY, *Mine Foreman*.

DAVID WILKINS, *Mine Foreman*.

O. J. FETTY, *Fire Boss*.

LAWRENCE HENRY, *Fire Boss*.

M. A. CURRAN, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA., R. F. D.

No. 231. *Consolidation No. 51.—No. 1 Mine—Pittsburg Seam—Drift*. This mine is located $15\frac{1}{2}$ miles North of Clarksburg, W. Va., on the West Fork River on the M. R. Division of the B. & O. Railroad. It is opened and developed on the double entry system and the current which ventilates the mine workings is produced by a centrifugal fan with direct steam connections. The roof is of the usual dangerous character which overlies the Pittsburg Seam and requires very careful attention as to timbering in the working places, etc., to prevent accidents from falls of slate. No gas of any consequence found. No

dust of dangerous character found in the mine. The coal is undercut with electric machines. Black powder is used principally to blast the coal. It is gathered to the side tracks by horses and mules and hauled to the drift mouth by electric motor and from there it is hoisted to the tippie by head rope and dumped into railroad cars. State Mine Laws are being observed. The mine is capable of producing about 200 tons daily. The drainage is good.

H. H. WATSON, *Manager*.

J. H. NUZUM, *Superintendent*.

OLIVER BUSH, *Mine Foreman*.

LOUIE LEWIS, *Mine Foreman*.

URIAH BLAKESMITH, *Fire Boss*.

TOM LAIRD, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA., R. F. D.

No. 231, *Consolidation No. 51.—No. 3 Mine.—Pittsburg Seam.—Drift*. This mine is located on the West Fork River $15\frac{1}{2}$ miles North of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. The developments are on the double entry system. The current which ventilates the mine workings is produced by a centrifugal fan with electric connections. It is conducted to the working faces by substantial stoppings, over-casts, etc. Very slight traces only of gas have heretofore been discovered at a few of the working faces in the mine. Very small quantities of dust only, which is cared for. The roof is of the usual character and dangerous if not carefully timbered, but is being looked after. The coal is undercut by machines of the electric type and is blasted with both black powder and permissible explosives. It is gathered to the side tracks by mules and horses and from there it is hauled to the mouth of No. 1 mine, via No. 1 Left entry off of Main Headings No. 1 Mine, which is cut to the outside and the haulway of No. 3 mine is intersected with this heading. It is hoisted to the tippie by means of head rope in conjunction with the output of No. 1 mine. State Mine Laws are being observed. The capacity of this mine is about 500 tons daily. The drainage is difficult in sections, yet looked after carefully.

H. H. WATSON, *Manager*.

J. H. NUZUM, *Superintendent*.

OLIVER BUSH, *Mine Foreman*.

LOUIE LEWIS, *Mine Foreman*.

URIAH BLAKESMITH, *Fire Boss*.

TOM LAIRD, *Fire Boss*.

THE CONSOLIDATION COAL COMPANY.

P. O. OCEAN MINE, W. VA.

No. 232, *Consolidation No. 52.—Pittsburg Seam.—Drift*. This mine is located 3 miles East of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. The property is being developed on the double entry system. The current which ventilates the mine workings is produced by a centrifugal fan with direct steam connections. It is conducted to the working faces by substantial stoppings, over-casts, etc. The roof in some sections of this mine is very good and does not resemble that of the stratum directly overlying the Pittsburg seam of coal, while in other sections it is very bad and requires very careful attention to prevent accidents from falls of slate. Gas does not liberate

from the coal and dangerous dust is not found in the mine. The coal is undercut by picks and by machines of the compressed air puncher type. It is blasted with black powder and permissible explosives. It is gathered to the rope by horses and mules and from there it is hauled to the tippie by head and tail rope, where it is dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 1200 tons daily. The drainage is difficult in sections, yet looked after.

H. H. WATSON, *Manager*.

D. A. REED, *Superintendent*.

FRANK BROOKS, *Mine Foreman*.

THE CONSOLIDATION COAL COMPANY.

P. O. MT. CLARE, W. VA.

No. 233. *Consolidation No. 60.—Pittsburg Seam—Drift Incline.* This mine is located on Browns Creek, $7\frac{1}{2}$ miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. The development is made on the double entry system. The ventilating current is produced by a disc fan with electric connection. The roof is very bad and requires very careful attention to prevent falls of slate, accidents, etc. No gas liberates in the mine, and but very little dust of any character is found. The coal is undercut by electric machines, blasted with permissible explosives, gathered and hauled to the head of the plane by mules and horses and from there it is lowered by traction to the tippie and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 400 tons daily. The drainage is looked after and good in working sections.

H. H. WATSON, *Manager*.

LOWELL CHILDS, *Superintendent*.

J. M. MATHENEY, *Mine Foreman*.

THOMAS SMITH, *Superintendent*.

THE CONSOLIDATION COAL COMPANY.

P. O. SHINNSTON, W. VA., R. F. D.

No. 234. *Consolidation No. 66.—Pittsburg Seam—Drift.* This mine is located on the West Fork River $17\frac{1}{2}$ miles north of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. It is opened up on the double entry system. The current which ventilates the mine is produced by a disc fan with steam connection. It is conducted to the working places by substantial stoppings, over-casts, etc. The roof is of the character which is usually found over the Pittsburg seam of coal and which requires care as to timbering to prevent accidents. No gas liberates from the mine and no dust of dangerous quantities. The coal is undercut by electric machines, blasted with black powder principally, gathered and hauled to the side tracks by mules and horses and from there it is hauled to the drift mouth by electric motor, hoisted to tippie by the Wagner-Palmros system and dumped into railroad cars. State Mine Laws are well observed. The capacity of this mine is about 800 tons daily. The drainage is difficult but is being looked after.

H. H. WATSON, *Manager*.

C. H. HIGGINBOTHAM, *Superintendent*.

PERRY VERNON, *Mine Foreman*.

ALBERT PARSONS, *Mine Foreman*.

THE CONSOLIDATION COAL COMPANY.

P. O. INTERSTATE, W. VA.

No. 235. *Consolidation No. 64.—No. 2 Mine.—Pittsburg Seam—Drift.* This mine is located 8 miles South of Clarksburg, W. Va., on a small tributary of Browns Creek on the W. Va. & P. Division of the B. & O. Railroad. It is being developed on the double entry system. The current by which the mine is ventilated is produced by a steam connected centrifugal fan and is conducted to the working places by wooden stoppings. The roof is very bad in sections of this mine and requires very careful attention as to timbering to prevent falls of slate and accidents from occurring. No gas or dust of any consequence or of dangerous quantities found in the mine. Permissible explosives are principally used to blast the coal, which is undercut by compressed air machines of the puncher type. The coal is gathered by horses and mules and hauled to the tippie and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 1200 tons daily. The drainage difficult is sections, yet well looked after.

H. H. WATSON, *Manager.*L. C. KEENER, *Superintendent.*JESSE L. THOMAS, *Mine Foreman.*P. B. ROBINSON, *Superintendent.*

VIRGINIA-MARYLAND COAL CORPORATION.

P. O. SHINNSTON, W. VA., R. F. D.

No. 236. *Willard No. 1 Mine.—Pittsburg Seam.—Drift.* This mine is located on Mud Lick Run, a small tributary to the West Fork River, 17½ miles north of Clarksburg, W. Va., on a branch off the M. R. Division of the B. & O. Railroad. The Main headings are developed on the tripple entry system while the room entries are developed on the double entry system. The ventilating current is produced by a large centrifugal fan with direct steam connections. The roof is very bad in some sections and requires very careful attention to prevent accidents. In other sections it is good, or at last above the average for the region. No gas liberates and no dust of any consequence is found in the mine. The coal is undercut by machines of the compressed air punch type, blasted with permissible explosives, gathered to the side tracks by horses and mules and from there it is hauled to the tippie by means of gasoline motor, where it is dumped into railroad cars. State Mine Laws are observed. This mine is capable of producing 1500 tons daily. The drainage is difficult but looked after.

IRVING ADAMS, *General Manager.*A. LANGLE WHITE, *Superintendent.*THOS. WESTMORELAND, *Mine Foreman.*L. C. MORRIS, *Asst. Mine Foreman.*

VIRGINIA-MARYLAND COAL CORPORATION.

P. O. SHINNSTON, W. VA., R. F. D.

No. 236. *Willard No. 2 Mine.—Pittsburg Seam.—Drift.* This mine is located on Mud Lick Run, a tributary of West Fork River, 17½ miles north east of Clarksburg, W. Va., on a branch off of the M. R. Division of the B. & O. Railroad. It is opened up on the double entry system and the current which ventilates the workings is produced mostly by natural means. However a fire

basket is also used to ventilate a section of the mine. This mine has not operated much during the past year, only a very few men being employed therein and that being irregularly. The roof is above the average of that which overlies the Pittsburg Seam and is well looked after. The coal is undercut by puncher machine, blasted with permissible explosives and gathered and hauled to the tippie by mules and horses. It is hauled to the same tippie over which the output of No. 1 mine is dumped, and is dumped into railroad cars in connection with the output of No. 1 mine. No gas or dust in the mine. State Mine Laws are observed. The mine is capable of producing 200 tons daily. Water is handled exclusively by pumps.

IRVING ADAMS, *General Manager*.

A. LYSLE WHITE, *Superintendent*.

THOS. WESTMORELAND, *Mine Foreman*.

L. C. MORRIS, *Asst. Mine Foreman*.

HUTCHINSON COAL COMPANY.

P. O. MEADOWBROOK, W. VA.

No. 237. *McCandlish No. 1.—Pittsburg Seam.—Drift*. This mine is located on the waters of Simpson Creek, a tributary of the West Fork River, about 1 mile from the West Fork River, on a branch off of the M. R. Division of the B. & O. Railroad. It is opened up and developed on the double entry system. The current which ventilates the mine workings is produced by a disc fan with electric connections. It is conducted to the working places by substantial stoppings, etc. The roof is good for that which overlies the Pittsburg Seam of coal in this region and is being well looked after as to timbering to prevent accidents, etc. No gas liberates from the coal, and no dust of dangerous character found in this mine. The undercutting is done by electric machines. It is blasted with black powder, is gathered to the side tracks by mules and horses and from there it is hauled to the tippie by electric motor, where it is dumped into Railroad cars. State Mine Laws are well observed. The capacity of this mine is about 800 tons daily. The drainage is good in all important working sections of the mine.

C. H. JENKINS, *General Manager*.

PAT COSTELLO, *Mine Foreman*.

JOHN REUTER, *Superintendent*.

ARTHUR SPENCER, *Mine Foreman*.

FRED WEISS, *Mine Foreman*.

HUTCHINSON COAL COMPANY.

P. O. MEADOWBROOK, W. VA.

No. 237. *McCandlish No. 2.—Pittsburg Seam.—Drift*. This mine is located on the waters of Simpson Creek, a tributary of the West Fork River, 2 miles north of Clarksburg, W. Va. It is opened up and developed on the double entry system. The current which ventilates the mine workings is produced by a centrifugal fan with electric connections. It is distributed to the working faces by means of substantial stoppings, doors, overcasts, etc. The roof is above the average for that which overlies the Pittsburg seam in this region. However, it requires attention as to timbering to prevent falls. No gas liberates from the coal and but little dust is found in the mine. The coal is undercut by electric machines of the chain type, blasted principally with black powder, gathered and hauled to the side tracks by mules and horses. From there it is

hauled to the No. 1 tippie located on a branch off of the M. R. Division of the B. & O. Railroad by electric motor. The coal is haled via the Main Heading of No. 1 mine, which is cut through the hill opposite the hill in which No. 2 mine is opened. State Mine Laws are being observed. This mine is capable of producing 1200 tons daily. The drainage is good.

C. H. JENKINS, *General Manager*.

PAT COSTELLO, *Mine Foreman*.

JOHN REUTER, *Superintendent*.

ARTHUR SPENCER, *Mine Foreman*.

FRED WEISS, *Mine Foreman*.

CORONA COAL & COKE COMPANY.

P. O. CLARKSBURG, W. VA., R. F. D.

No. 238. *Harold Mine.—Pittsburg Seam—Drift Incline.* This mine is located on the West Fork River 2 miles North of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. The mine is opened up on the double entry system. The current which ventilates the mine is produced by a disc fan with electric connections. It is conducted to the working places by wooden stoppings, doors etc. The roof varies in character, some sections being above the average for the region and other sections being very bad. However, it is carefully looked after as to timbering. No explosive gas liberates in the mine. In some of the old sections of the mine carbon dioxide is found in varying quantities. No dust of dangerous character found. The coal is undercut by electric machines and blasted with permissible explosives. It is gathered and hauled to the side tracks on the interior by mules and horses and from there it is hauled with an electric motor to the mouth of the drift at the head of the plane, where it is lowered by traction to the tippie and dumped into railroad cars. State Mine Laws are being observed. This mine is capable of producing from 600 to 700 tons daily. The drainage is bad in the left hand section yet kept in fair condition.

S. A. TAYLOR, *General Manager*.

ED. CLINGAN, *Superintendent*.

THOMAS HERTON, *Mine Foreman*.

CENTRAL FAIRMONT COAL COMPANY.

P. O. CLARKSBURG, W. VA.

No. 239. *Snake Hill Mine.—Pittsburg Seam.—Drift.* This mine is located on the waters of Elk Creek, a tributary of West Fork River, 1 mile East of Clarksburg, W. Va., on the Grasselli Branch of the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilating current is produced by a furnace which ventilates the principal working sections of the mine. However, other smaller sections are ventilated naturally, as there are numerous holes to the outside in the crop workings. The roof is of the usual character which overlies the Pittsburg Seam and which is dangerous when not properly to prevent accidents. Timbering is looked after. This is a pick mine, there being no machinery for undercutting the coal. No gas liberates in the mine and the dust is cared for by wetting. The coal is gathered and hauled from the working places to the tippie by means of horses and mules. State Mine Laws are observed. This mine is capable of producing from 500 to 600 tons daily. Drainage good except rooms left off of Main, where some standing water is found.

D. HOWARD, *General Manager*.

FRED HOWARD, *Superintendent*.

D. M. HARR, *Mine Foreman*.

VINCENT COAL COMPANY.

P. O. CLARKSBURG, W. VA.

No. 240. *Grasselli Mine.—Pittsburg Seam.—Drift Incline.* The location of this mine is on a small tributary of Elk Creek, 1 mile East of Clarksburg, W. Va., on the Gresselli Branch off of the Parkersburg Branch of the B. & O. railroad. It is opened on the double entry system. The ventilation for the past year has been by natural means, as this is a hill top mine with numerous holes to the outside around the outcrop. The roof is of the usual character overlying the Pittsburg Seam, which requires careful timbering to prevent falls of slate and accidents resulting therefrom. No gas liberates nor dust of any consequence found in the mine. It is a pick mine, there being no machinery with which to undercut the coal installed. It is blasted with permissible explosives, gathered to the head of the plane by mules and horses where it is lowered to the tippie by traction and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is from 300 to 400 tons daily. Drainage good in the working places.

V. E. GOCCKE, *General Mgr. & Supt.*J. J. MALLOY, *Mine Foreman.*

HAYWOOD COAL MINING COMPANY.

P. O. SHINNSTON, W. VA.

No. 241. *Monroe Mine.—Pittsburg Seam.—Drift.* This mine is located on the West Fork River 14 miles North of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilating current is produced by disc fan with electric connection. It is conducted to the working places by means of wooden stoppings. The roof is of the usual character which overlies the Pittsburg seam of coal and requires careful timbering to prevent accidents from falls, etc. Gas in small quantities liberates at some of the working faces. Dust also requires a little attention as to wetting in some sections. The coal is undercut by electric machines. It is blasted with permissible explosives, gathered and hauled to the drift mouth by mules and horses. From there it is hoisted to the tippie by electric retard where it is dumped into Railroad cars. State Mine Laws are observed. The capacity of this mine is about 600 to 700 tons daily. Water is handled by pumps and kept in fair condition.

GEORGE WISSER, *General Mgr. & Supt.* L. C. MORRIS, *Mine Foreman.*ISAAC MARTIN, *Mine Foreman.*

HUTCHINSON COAL COMPANY.

P. O. HEPZIBAH, W. VA.

No. 242. *Eric No. 1 Mine.—Pittsburg Seam.—Drift Engine Plane.* This mine is located on the West Fork River 6 miles North of Clarksburg, W. Va., on the M. R. Division of the B. & O. Railroad. It is being developed on the double entry system. The current which ventilates the mine workings is produced by a centrifugal fan of high speed with belt connections to a steam engine. It is conducted to the working faces by means of substantial stoppings, over-casts, etc. The roof is a very good average for that which overlies the Pittsburg Seam and is carefully looked after to prevent accidents. No gas liberates from the coal and no dust of any consequence found. The coal is undercut by electric machines, gathered and hauled on the side tracks by mules and horses and from

there to the drift mouth by electric motors and from there it is hoisted to the tibble by head rope via engine plane. Permissible powder is used to blast the coal. State Mine Laws are being observed. This mine is capable of producing from 400 to 500 tons daily. The drainage is difficult but carefully looked after, and kept in good condition.

C. H. JENKINS, *General Manager*.

JAMES A. JENKINS, *Superintendent*.

JOHN DAILY, *Superintendent*.

JOHN DAILY, *Mine Foreman*.

ELI MORRIS, *Mine Foreman*.

HUTCHINSON COAL COMPANY.

P. O. HEFZIBAH, W. VA.

No. 242. *Eric No. 2 Mine.—Pittsburg Seam.—Drift.* This mine is located on Lamberts Run, a small tributary of the West Fork River, about 1 mile West of Eric No. 1 mine. It is opened up on the four entry system. The ventilation is produced by a centrifugal fan with electric connections of a high speed type. The room entries are developed on the double entry system. The roof is of the usual character which overlies the Pittsburg Seam of coal in the region and is carefully timbered to prevent accidents. No gas liberates from the coal and no dust of dangerous character found in the mine. The coal is undercut by electric machines, gathered to the side tracks by mules and horses and from there it is hauled by electric motors to the mouth of Mine No. 1 via the Main Heading of this mine, which is cut through the hill, and the haulways being connected. From there it is hoisted up the engine plane with head rope in connection with the output of No. 1 mine. State Mine Laws are observed. The capacity of this mine is from 700 to 800 tons daily, and will increase as developments are made. The drainage is difficult but carefully looked after and kept in good condition.

C. H. JENKINS, *General Manager*.

JAMES A. JENKINS, *Superintendent*.

JOHN DAILY, *Superintendent*.

JOHN DAILY, *Mine Foreman*.

ELI MORRIS, *Mine Foreman*.

HUTCHINSON COAL COMPANY.

P. O. REYNOLDSVILLE, W. VA.

No. 243. *Delta Mine.—Pittsburg Seam.—Slope.* This mine is located on Limestone Run 7 miles West of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilating current is produced by a centrifugal fan of high speed design with belt connection to a steam engine. It is conducted to the working faces by means of wooden stoppings. The roof is rather bad and requires very close attention as to the proper blasting of the coal and as to timbering, to prevent falls, accidents, etc. Traces of gas liberate from some of the working places. Also some dust is found in the mine. The coal is undercut by compressed air punches and blasted with permissible powder exclusively. It is gathered and hauled to the rope by horses and mules and from there it is hauled to the tibble with head rope where it is dumped into Railroad cars. State Mine Laws are being observed. The capacity of this mine is about 400 tons daily. The drainage is carefully looked after by pumps.

C. H. JENKINS, *General Manager*.

C. D. M. KRAMER, *Superintendent*.

C. D. M. KRAMER, *Mine Foreman &
Fire Boss*.

HUTCHINSON COAL COMPANY.

P. O. MT. CLARE, W. VA.

No. 244. *Hutchinson Mine No. 1.—Pittsburg Seam.—Drift.*—This mine is located on the waters of Browns Creek, 8 miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is a twin mine of No. 2, which is located in the opposite hill. The tippie bridges a ravine which separates the two mines. This mine has not operated any during the past year. The coal will eventually be taken via No. 3 mine, which is opened at the head of the ravine mentioned above.

C. H. JENKINS, *General Manager.*W. G. H. CRAWFORD, *Superintendent.*

HUTCHINSON COAL COMPANY.

P. O. MT. CLARE, W. VA.

No. 244. *Hutchinson Mine No. B.—Pittsburg Seam.—Drift.*—This mine is located on the waters of Browns Creek 8 miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. The main headings are opened on the triple entry system. The room and some of the Face Headings are being developed on the double entry system. The ventilating current is produced by a centrifugal fan with direct steam connections. It is conducted to the working places by substantial stoppings, doors, etc. The roof is very bad in some sections of the mine, which necessitates careful attention as to timbering and also as to properly blasting the coal to prevent falls of slate, accidents, etc. Traces of gas have heretofore been found liberating at some of the faces, but are being taken care of with sufficient ventilation. Dust is also a factor in some sections of this mine and requires attention. The coal is undercut by both types of machines—compressed air and electric, the compressed air being of the puncher type. The coal is blasted by permissible powder exclusively. It is gathered and hauled to the side tracks by horses and mules and from there to the tippie by electric motor where it is dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is hard to estimate, as it is principally pillar work, etc. However, think it capable of producing from 400 to 500 tons daily. Drainage looked after with pumps, ditches, etc.

C. H. JENKS, *General Manager.*W. G. H. CRAWFORD, *Superintendent.*W. B. MALONE, *Mine Foreman.*ARTHUR SPENCER, *Fire Boss.*J. E. MASON, *Fire Boss.*

HUTCHINSON COAL COMPANY.

P. O. MT. CLARE, W. VA.

No. 244. *Hutchinson Mine No. 3.—Pittsburg Seam.—Drift.*—This mine is located on the waters of Browns Creek 8 miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. railroad. It is opened up on the double entry system. The air currents which ventilate the mine workings are produced by two fans, one being the centrifugal fan which ventilates No. 2 workings described in report on No. 2 mine, the other being a disc fan which is connected by belt to a steam engine. They are conducted to the working places by means of good stoppings, over-casts, doors, etc. The roof is bad and requires careful attention as to blastings, timbering, etc., to prevent falls and

accidents. Some gas liberates at the advanced working faces, which is well taken care of by means of sufficient ventilation. The coal is undercut by machines of the electric type. It is blasted with permissible powder exclusively. It is gathered and hauled to the side tracks on the interior of the mine by horses and mules and from there it is hauled by an electric motor to the tippie described in the reports of Mines No. 1 and 2 and is dumped into railroad cars in conjunction with the output of No. 2 mine. State Mine Laws are being observed. This mine is capable of producing 800 tons daily. Drainage is good.

C. H. JENKINS, *General Manager*.

W. B. MALONE, *Mine Foreman*.

W. G. H. CRAWFORD, *Superintendent*.

ARTHUR SPENCER, *Fire Boss*.

J. E. MASON, *Fire Boss*.

HARRISON COUNTY COAL COMPANY.

P. O. HEPZIBAH, W. VA.

No. 245, *Overholt Mine*.—*Pittsburg Seam*.—*Slope*.—The location of this mine is on the West Fork river $6\frac{1}{2}$ miles north of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. It is opened up on the double entry system. The current which ventilates the mine workings is produced by a disc fan with electric connections. The roof is of the usual character overlying the Pittsburg Seam in this region, which is dangerous and requires careful attention as to blasting the coal, timbering, etc. to prevent accidents from falls of slate, etc. Traces of gas have heretofore been found liberating at a few of the working faces, which is cared for by sufficient ventilation. Dust is also cared for. This mine has reached the limit of their property and are now on the retreat, the workings being confined to pillars, etc. The coal is undercut by electric machine. It is blasted with permissible explosives exclusively. It is gathered and hauled to the foot of the slope by horses and mules and from there it is hoisted up the slope to the tippie by head rope and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is hard to estimate at present on account of there being no new territory to develop. The drainage is good.

GEORGE AUSTIN, *General Mgr. & Supt.* TONY STARR, *Mine Foreman*.

DAVID TEASDALE, *Mine Foreman*.

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LAMBERTS RUN COAL COMPANY.

P. O. MEADOWBROOK, W. VA.

No. 246, *Clanson Mine*.—*Pittsburg Seam*.—*Drift*.—*Engine Plane*.—This mine is located on the West Fork river 7 miles north of Clarksburg, W. Va. on the Short Line Division of the B. & O. Railroad. It is opened up on the double entry system. The current which ventilates the mine workings is produced by a disc fan with electric connections. The roof is above the average for that which overlies the Pittsburg Seam in this region. However, it requires proper attention as to timbering, blasting, etc., to prevent falls, accidents, etc. Traces of gas have heretofore been found liberating in one or two of the working places in small quantities, which was being cared for with sufficient ventilation. The coal is undercut by electric machines and by picks. It is blasted with both black powder and permissible explosives. It is gathered and hauled to the drift mouth by mules and horses and from there it is hoisted up the

engine plane with a head rope by an electric motor to the tippie, where it is dumped into railroad cars. State Mine Laws are being observed. This company has recently acquired some additional adjoining coal properties and at the present time the mine is capable of producing 400 tons daily and will increase as developments are made in the future. Drainage carefully after with pumps.

C. D. ROBINSON, *General Manager*. W. M. ASHCRAFT, *Mine Foreman*.
DORSEY POPLÉ, *Superintendent*.

HERO COAL & COKE COMPANY.

P. O. LUMBERPORT, W. VA.

No. 247. *Hero Mine.—Pittsburg Seam.—Drift.*—This mine is located 10½ miles north of Clarksburg, W. Va., on the West Fork river, on the Short Line Division of the B. & O. Railroad. The current which ventilates the mine is produced by a disc fan and gas engine with belt connection. It is conducted to the working places by means of wooden stoppings, doors, etc. The roof is a little above the average of that which overlies the Pittsburg Seam in the region, yet it requires careful timbering to prevent falls in several sections of the mine. Traces of gas have been discovered liberating in small quantities in one section of this mine. This is being looked after by sufficient ventilation. The coal is undercut with picks by reason of there being no machinery for that purpose installed. It is blasted with permissible explosives, gathered and hauled to the tippie by horses and mules, where it is dumped into railroad cars. State Mine Laws are being observed. This mine has operated very irregularly during the past year with a very small force of men. With a full force of men this mine is capable of producing 600 tons daily. Drainage is good in the larger portion of the mine. It is bad to the left of the Main in some places. E. L. ZEARLY, *General Manager*.

HARRY HOUGH, *Supt., Mine Foreman and Fire Boss*.

BLUE RIDGE COAL COMPANY.

P. O. LUMBERPORT, W. VA.

No. 248. *Thompson Mine.—Pittsburg Seam.—Drift.*—This mine is located on Ten Mile Creek 11 miles north of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilating current is produced by a disc fan and gas engine with belt connection. It is conducted to working faces by means of wooden stoppings, doors, etc. The roof is bad in some sections of the mine while in other sections it is a fair average for the region. However, it requires careful timbering, blasting, etc., to prevent falls. No gas liberates from the coal, and but very little dust is found in the mine. The coal is undercut with picks, there being no power plant installed at this mine. It is gathered and hauled to the drift mouth by horses and mules where it is dumped into a wooden chute which conducted it to the railroad cars. This property has been in litigation and for that reason very little operating was done during the past year. State Mine Laws were being observed. This mine is capable of producing from 500 to 600 tons daily. Drainage is bad.

W. D. WAMSLEY, *General Manager*.

WILLIS SANDRIDGE, *Supt. and Mine Foreman*.

ROSEBUD FUEL COMPANY.

P. O. ROSEBUD, W. VA.

No. 249. *Rosebud Mine No. 1.—Pittsburg Seam.—Drift Incline.*—This mine is located on Ten Mile Creek 14 miles northwest of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. The openings are made on the double entry system. The ventilating current is produced by a disc fan with electric connection. It is conducted to the working faces by wooden stoppings, doors, etc. The roof is rather bad and requires exceeding careful timbering and blasting of the coal to prevent falls, accidents, etc. No gas liberates and no dust of any consequence is found in the mine. The undercutting is done by machines of the electric type. It is blasted with permissible explosives, gathered to the side tracks by horses and mules and from there it is hauled to the drift mouth at the head of the plane by electric motor and lowered by traction to the tippie where it is dumped into railroad cars. State Mine Laws are being observed. This mine is capable of producing from 400 to 500 tons daily. Drainage bad in some sections.

W. E. WATSON, JR., *General Manager.* JAMES DENNISON, *Mine Foreman.*J. F. STRAIGHT, *General Supt.*R. E. GARRETT, *Superintendent.*

ROSEBUD FUEL COMPANY.

P. O. ROSEBUD, W. VA.

No. 250. *Rosebud Mine No. 2.—Pittsburg Seam.—Drift Incline.*—This mine is located on Ten Mile Creek, 14 miles northwest of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilating currents are produced by the disc fan which ventilates Mine No. 1 and by natural means, as there are numerous holes to the outside in the crop workings. They are conducted to the working faces by means of wooden stoppings, doors, etc. The roof is a good average for that overlying the Pittsburg Seam in this region, which requires careful daily attention to prevent falls, accidents, etc. No gas liberates from the coal, and no dust of dangerous character found. The coal is undercut by compressed air machines of the puncher type, is blasted with permissible explosives, hauled to the side tracks on the interior by mules and horses, and from there to the drift mouth at the head of the plane with an electric motor, where it is lowered to the tippie by traction plane and dumped into railroad cars. State Mine Laws are being observed. This mine is capable of producing 600 tons daily. Drainage is good in most parts of the mine, yet bad in some sections.

W. E. WATSON, *General Manager.* JAMES DENNISON, *Mine Foreman.*J. F. STRAIGHT, *General Supt.*R. E. GARRETT, *Superintendent.*

NATIONAL COAL COMPANY.

P. O. DOLA, W. VA.

No. 251. *National Mine.—Pittsburg Seam.—Drift.*—The location of this mine is on Ten Mile Creek 16 miles northwest of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. The development is being made on the double entry system. The ventilating current are principally natural as there are numerous holes to the outside around the outcrop. However, there

is a furnace in connection which is used to ventilate some sections of the mine. The roof is unusually bad and requires very careful blasting of the coal as well as timbering to prevent falls, accidents, etc. No gas liberates from the coal. It is blasted with permissible powder and black powder. However, very little explosives are used as most of the coal is produced by picks exclusively and requires no blasting. It is gathered and hauled by mules and horses to the tippie where it is dumped into the wooden chute that slides it into a small bin, and from there it is poured into railroad cars. State Mine Laws are being observed. The mine is capable of producing 200 tons daily. The drainage is bad along important haulways.

W. H. CONOWAY, *Manager*.

BROOKS PATTON, *Mine Foreman*.

R. A. BROWN, *Superintendent*.

FAYETTE COAL COMPANY.

P. O. DOLA, W. VA.

No. 252. *Fayette mine*.—*Pittsburg Seam*.—*Drift*.—(During a portion of the year, *Incline*.)—The location of this mine is 16 miles northwest of Clarksburg, W. Va., on Ten Mile Creek on the Short Line Division of the B. & O. Railroad. It is opened up on the double entry system and ventilating current is produced by a disc connected to a steam engine by belt. It is conducted to the working faces by means of wooden stoppings, doors, etc. Much difficulty was experienced in maintaining the roof in the airways until after the operating company made a change in the working plans of their mine, making new openings, which eliminated the incline. The coal is now being hauled around the hill to the tippie and much better conditions prevail in the airways, as this enables them to use the old haulway headings for airways. Slight traces of gas have been heretofore discovered liberating at a few of the working faces. None however have been discovered for some time and the mine is at this time practically free from gas. Drainage is good and no dust of dangerous character found. The coal is undercut by compressed air machines of the puncher type. It is gathered and hauled to the tippie by horses and mules where it is dumped into railroad cars. State Mine Laws are being observed. This mine is capable of producing 600 tons daily.

E. DALE FIELD, *General Manager*.

ELI MORRIS, *Mine Foreman*.

E. W. STERRETT, *Superintendent*.

LOCK VINCENT, *Mine Foreman*.

B. T. GREAVES, *Superintendent*.

MONONGAH FUEL COMPANY.

P. O. MONONGAH, W. VA.

No. 253. *Galluchac Mine*.—*Pittsburg Seam*.—*Drift*.—This mine is located on Coors Run 19 miles north of Clarksburg, W. Va., on the Coons Run Branch off of the M. R. Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by natural means and also by furnace. It is conducted to the working places by means of wooden stoppings, doors, etc. The roof is of the usual character overlying the Pittsburg Seam in this region and which requires careful timbering to prevent falls of slate and accidents from happening. No gas liberates in the mine and no dust of a dangerous character is found. The coal is undercut by picks, there being no machinery installed at the mine. It is blasted with black powder. It is

gathered and hauled to the tippie by mules and horses. State Mine Laws are being observed. The capacity of this mine is about 400 tons daily. Drainage is good in most of the working places. Some little difficulty is experienced however to properly drain it in some sections.

CARROLL CURREY, *General Manager*. JOHN PRUNTY, *Mine Foreman*.

DAVE VICTOR, *Manager & Supt.*

D. A. WILSON, *Supt. & Mine Foreman*.

GEORGE COBURN, *Supt. & Mine Foreman*.

SHORT LINE COAL COMPANY.

P. O. DOLA, W. VA.

No. 254. *Girards No. 2 & 3.—Pittsburg Seam.—Drifts.*—These mines are located on Ten Mile Creek 16½ miles northwest of Clarksburg, W. Va., on the Short Line Division of the B. & O. Railroad. They are opened up on the double entry system. The ventilating currents are produced by two fans and conducted to the working places by means of wooden stoppings, doors, etc. The fans are propelled by steam engine with belt connection. The roof is a fair average of that which overlies the Pittsburg Seam in this region, which requires careful attention daily as to timbering, blasting of the coal, etc., to prevent falls of slate, accidents, etc. No gas liberates in the No. 3 mine. Small quantities have heretofore been detected liberating at some of the faces in No. 2 mine. Also some Carbon Dioxide is found in No. 2 mine in the abandoned workings to the left of the Main. The coal is undercut with picks. It is blasted with black powder and permissible explosives. It is gathered and hauled to the side tracks by horses and mules and from there it is hauled to the tippie by means of head rope. These mines are not intersected under ground yet the output of No. 3 is hauled via a portion of the No. 2 workings before reaching the rope. From there it is hauled to the tippie and dumped into railroad cars in conjunction with the output of No. 2 mine. State Mine Laws are being observed in most important matters. The capacity of this mine is about 600 tons daily. The drainage of No. 2 is very bad. Large bodies of standing water are found at the extreme faces which are not working at present, as this mine goes to the dip. The drainage in No. 3 mine is fairly good.

CHARLES HEYER, *General Manager*.

CLAUDE ADDISON, *Mine Foreman*.

PAT KROGER, *Superintendent*.

THOMAS H. GRAHAM, *Mine Foreman*.

J. R. ELSESS, *Superintendent*.

THOMAS H. GRAHAM, *Superintendent*.

FAIRMONT & BALTIMORE COAL & COKE COMPANY.

P. O. ADAMSTON, W. VA.

No. 255. *Fairmore Mine.—Pittsburg Seam.—Drift Incline.*—This mine is located on Limestone Creek, 2 miles west of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilating currents are produced by natural means, by furnace and one portion of the mine is ventilated by a fan, which is connected to a steam engine by belt. It is conducted to the working faces by wooden stoppings, doors, etc. The roof is bad and requires careful attention as to timbering to prevent accidents. No gas liberates from the coal and not dust of any

consequence is found in the mine. The coal is undercut with picks. It is blasted with black powder, gathered and hauled to the outside by horses and mules and from there it is hauled around the hill to the head of the plane by steam locomotive, where it is lowered by rope to the tippie by engine plane and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is hard to estimate, in as much as most of the workings are pillars, etc. However I would judge the mine capable of producing from 300 to 400 tons daily. The drainage is bad in some sections on account of local dips, etc., and it is difficult to get proper drainage on account of old workings which are badly fallen in.

IRVING ADAMS, *General Manager*.

CLEO MONK, *Mine Foreman*.

A. LYSLE WHITE, *Superintendent*.

MADERIA-HILL-CLARK COAL COMPANY.

P. O. WILSONBURG, W. VA.

No. 256. *Goff Mine.—Pittsburg Seam.—Drift Incline.*—This mine is located on Limestone Creek $3\frac{1}{2}$ miles west of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by a centrifugal fan with direct steam connection, located at drift mouth of Waldo No. 1 mine belonging to the same company, these two mines being connected underground. The roof is of a good average for the Pittsburg Seam in this region, and is well timbered. No gas liberates from the coal, and no dust of dangerous character found in the mine. The coal is undercut by picks and gathered and hauled to the drift mouth at the head of the plane by horses and mules where it is lowered by traction by the tippie and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is about 800 tons daily. Drainage is good in all the important working places in the mine.

JOHN A. CLARK, *General Manager*. O. J. FOWLER, *Mine Foreman*.

W. R. WILBURN, *General Superintendent*.

J. M. HICKS, *Superintendent*.

MADERIA-HILL-CLARK COAL COMPANY.

P. O. WILSONBURG, W. VA.

No. 257. *Waldo No. 1.—Pittsburg Seam.—Drift Retard Plane.*—This mine is located 4 miles west of Clarksburg, W. Va., on the waters of Limestone Creek on the Parkersburg Branch of the B. & O. Railroad. The mine is opened up on the double entry system. The ventilating current is produced by a centrifugal fan with direct steam connection and is conducted to the working faces by means of wooden stoppings, doors, etc. The roof is rather bad and requires very careful attention to prevent falls, accidents, etc. No explosive gas liberates from the coal and no dust of dangerous character found in this mine. Some Carbon Dioxide is found in the abandoned sections of the mine. The coal is undercut with picks, blasted with black powder, gathered and hauled to the drift mouth at the head of the plane by horses and mules where it is lowered to the tippie by retard plane and dumped into railroad cars. State Mine Laws are being observed. The capacity of this mine is from 300 to

400 tons daily at this time and will not increase in as much as pillars and stumps are the principal part of the workings. Drainage is bad in several sections of the mine.

JOHN A. CLARK, *General Manager*.

A. G. COBURN, *Mine Foreman*.

W. R. WILBURN, *General Supt.*

J. M. HICKS, *Superintendent*.

HUTCHINSON COAL COMPANY.

P. O. REYNOLDSVILLE, W. VA.

No. 258. *York Mine.—Pittsburg Seam.—Drift. Incline.*—This mine is located on the waters of Limestone Creek $6\frac{3}{4}$ miles west of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. The opening and the developments are being made on the double entry system. The current which ventilates the mine workings is produced by a high speed fan of the J. R. Robinson type, which is connected to a steam engine by belt. The current is conducted to the working places by means of wooden stoppings, doors, etc., which are substantially built. The roof is of the usual character that overlies the Pittsburg Seam in this region and which requires careful timbering in rooms, etc., to prevent falls of slate and accidents from happening. At times during the past year gas escaped in this mine in large and dangerous quantities from a gas well located about 1700 feet across the hill from the opening, which gave the operating company, as well as the inspector, a great deal of concern to prevent an accident from happening. At this time however, no gas is found in the workings, but a careful watch is maintained by a competent fire boss. The coal is undercut with picks and blasted with permissible explosives. It is gathered and hauled to the head of the plane by horses and mules and from there it is lowered to the tippie by means of traction plane and dumped into the railroad cars. State Mine Laws are being observed. The capacity of this mine is about 100 tons daily, and will increase as developments are made. Drainage is good in all the working places. Some standing water found along Main Heading, which needed attention. This mine was not reported last year, as it is a new mine, and began shipping coal during the past year.

C. H. JENKINS, *General Manager*.

WILL FLANNAGAN, *Mine Foreman*.

C. D. M. KRAMER, *Superintendent*.

GEORGE ELIASON, *Fire Boss*.

WALTER MILLER, *Superintendent*.

WALTER MILLER, *Fire Boss*.

O'GARA COAL MINING COMPANY.

P. O. REYNOLDSVILLE, W. VA.

No. 259. *O'Gara Mine.—Pittsburg Seam.—Slope.*—This mine is located on the waters of Limestone Creek $7\frac{1}{2}$ miles west of Clarksburg, W. Va., on the Parkersburg Branch of the B. & O. Railroad. It is opened up on the double entry system and the current which ventilates the mine workings is produced by a centrifugal fan connected to a steam engine by belt. The design of this fan being high speed. It is conducted to the working places by means of wooden stoppings, doors, etc. The roof is of a very bad, brittle nature, and requires very great attention as to timbering, blasting the coal, etc., to prevent falls, accidents, etc. Some gas liberates at the faces in the advanced workings, which is being cared for by sufficient ventilation. The coal is un-

derent by picks and by compressed air machines of the puncher type. It is blasted with permissible explosives and gathered and hauled to the foot of the slope by horses and mules. From there it is hoisted to the tippie by means of head rope and dumped into railroad cars. State Mine Laws are observed. This mine is capable of producing 600 tons daily. The drainage in most of the working places is good. Along some of the important haulways it is very bad.

W. J. KEEFE, *Superintendent*.

THOMAS McDONALD, *Mine Foreman*.

M. MANNIX, *Superintendent*.

JAMES CUMMINGS, *Mine Foreman*.

ANDY ADCOCK, *Fire Boss*.

WADE C. WALES, *Fire Boss*.

PETE BRUNO, *Fire Boss*.

HARRY B COAL & COKE COMPANY.

P. O. CLARKSBURG, W. VA.

No. 260. *Pitcairn Mine.—Pittsburg Seam.—Drift.*—This mine is located 1 mile south of Clarksburg, W. Va., on a branch-off of the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by a centrifugal fan with direct steam connections. It is conducted to the working places by means of stoppings, several of which are constructed of brick. The roof is a good average for that overlying the Pittsburg Seam in this region, yet requires careful attention as to timbering and the blasting of the coal to prevent falls, accidents, etc. Traces of gas have heretofore been found liberating from some of the advanced working faces, which was being care for. Some sections of the mine are inclined to be dry and dusty in the winter time if not properly looked after. The coal is undercut by electric machines of the chain type and by picks. Black powder is principally used for blasting the coal. It is gathered to the side tracks by mules and horses from where it is hauled to the tippie by an electric motor where it is dumped into railroad cars. State Mine Laws are being observed. The mine is capable of producing 1200 tons daily. Drainage is good in all the important working sections of the mine.

HARRY B. CLARK, *General Manager*.

BERT RUSSELL, *Mine Foreman*.

JOHN A. CLARK, JR., *Supt.*

JOE COBURN, *Mine Foreman*.

MARSHALL COAL COMPANY.

P. O. Mt. CLARE, W. VA.

No. 261. *Marshall Mine.—Pittsburg Seam.—Drift Incline.*—This mine is located on Browns Creek 7 miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system and the current which ventilates the workings is produced by a centrifugal fan with direct steam connections. It is conducted to the working places by substantial stoppings, doors, etc. The roof varies in character, some sections being exceedingly good while in other sections it is very bad and requires very careful attention to prevent falls, accidents, etc. No gas liberates from the coal. Some dust found in the mine during the winter season, which requires attention. The coal is undercut by compressed air machines of the puncher type. It is blasted with black powder and permissible explosives. It is gathered and hauled to the side tracks on the interior by horses and mules.

From there for the most part of the year it was hauled to the drift mouth at the head of the plane by endless rope, but at this time it is hauled by gasoline motors. From here it is lowered by traction to the tippie and dumped into railroad cars. State Mine Laws are being observed. The capacity of the mine is about 1500 tons daily. Drainage is good.

C. E. SHARPLESS, *General Manager*. THOMAS PRICE, *Mine Foreman*.

WILLIAM PATTERSON, *Superintendent*. OLIVER MCINTIRE, *Mine Foreman*.

JAMES A. JENKINS, *Superintendent*. WILLIAM GANTZ, *Mine Foreman*.

DANIEL COAL COMPANY.

P. O. MT. CLARE, W. VA.

No. 262. *Gocke No. 1 Mine.—Pittsburg Seam.—Drift Incline.*—This mine is located on Browns Creek $7\frac{1}{2}$ miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by natural means. This mine has operated very irregularly during the past year. The roof is bad; drainage is bad; and conditions generally in and around the place are adverse. However, during the time the mine was operating, the State Mine Laws were being observed. The capacity of the mine is hard to estimate on account of abnormal conditions.

D. HOWARD, *Sales Manager*.

H. S. HUBER, *Mine Foreman*.

V. E. GOCKE, *Superintendent*.

CLARKSBURG GAS COAL COMPANY.

P. O. MCWHORTER, W. VA.

No. 263. *McWhorter Mine.—Redstone Seam.—Drift Incline.*—The location of this mine is 16 miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system. The current which ventilates the mine workings is produced by a disc fan with electric connections. It is conducted to the working places by means of wooden stoppings. The roof is very bad on account of numerous clay veins encountered and requires very careful attention as to timbering, blasting, etc., to prevent accidents. This mine has operated very irregularly during the past year. No gas liberates at the faces and no dust of dangerous character found in the mine. The coal is undercut by electric chain machines and blasted with permissible explosives. It is gathered and hauled to the side tracks by horses and mules and from there to the head of the plane by electric motor, from where it is lowered by traction to the tippie and dumped into railroad cars. State Mine Laws are observed. The capacity of this mine is from 200 to 300 tons daily, provided clay veins did not interfere too much with the operation. Drainage is good in all important working sections.

HARRY WHYEL, *General Manager*.

CHARLES FORTNEY, *Mine Foreman*.

J. J. SHARFNEKER, *Superintendent*.

BRYON COAL COMPANY.

P. O. MT. CLARE, W. VA.

No. 264. *Althca Mine.—Pittsburg Seam.—Drift.*—This mine is located on Browns Creek 7 miles south of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system. The

ventilating current is produced by a disc fan which is connected to a steam engine by belt. It is conducted to the working faces by wooden stoppings, doors, etc. The roof is a good average of that overlying the Pittsburgh Seam in this region, yet it requires careful attention as to timbering, blasting, etc., to prevent falls of slate, accidents, etc. No gas liberates from the coal. Some dust is found in the mine during the winter season and requires attention. The coal is undercut with picks and blasted with black powder principally. It is gathered and hauled to the drift mouth by horses and mules and from there it is lowered to the tippie by means of head rope, the distance being $\frac{1}{4}$ of a mile from the drift mouth to the tippie, where it is dumped into railroad cars. State Mine Laws are being observed in most important matters. This mine is capable of producing about 500 tons daily. Drainage is good.

D. HOWARD, *Sales Superintendent*. THOMAS PRICE, *Mine Foreman*.
P. P. GANNON, *Superintendent*.

HYGRADE COAL COMPANY.

P. O. McWHORTER, W. VA.

No. 265. *Page Mine—Redstone Seam—Drift Incline*.—This mine is located $15\frac{1}{2}$ miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system and the ventilation is produced by a furnace. It is conducted to the working places by means of wooden stoppings. The roof is good except in places where clay veins are encountered where it requires careful timbering, blasting, etc., to prevent falls, accidents, etc. No gas liberates from the coal. The mine is inclined to be dry and dusty and requires wetting to insure safety. The coal is undercut by picks and blasted with permissible explosives. It is gathered and hauled to the head of the plane by horses and mules from where it is lowered to the tippie by traction plane and dumped into Railroad cars. State Mine Laws are being observed. The capacity of this mine is from 200 to 300 tons daily. Drainage is exceedingly good. This mine did not operate regularly during the past year.

E. A. RUSSELL, *General Manager*.

ISHAM KEITH, *Superintendent*.

MARSHALL LIMER, *Supt. and Mine Foreman*.

CHARLES FORTNEY, *Mine Foreman*.

BERNHARD COAL COMPANY.

P. O. CLARKSBURG, W. VA., R. F. D.

No. 266. *Berk Mine—Pittsburg Seam—Drift Incline*.—This mine is located $14\frac{1}{2}$ miles East of Clarksburg, W. Va., on the waters of Elk Creek on the Grasselli Branch of the B. & O. Railroad. It is opened up on the double entry system. The ventilation is produced by a furnace. The roof is of the usual character overlying the Pittsburgh Seam in this Region and requires careful timbering to prevent falls, accidents, etc. No gas liberates from the coal and no dust of dangerous character is found. The coal is undercut by picks, gathered and hauled to the head of the plane by horses and mules and from there it is lowered to the tippie and dumped into railroad cars. State Mine Laws are observed in all important matters. Drainage is a little difficult, yet

it is in fair condition. The capacity of this mine is about 100 tons daily. This is a new mine and was not reported last year.

GEORGE PHILLIPS, *General Manager*.

PAT DONNELLY, *Supt. and Mine Foreman*.

LEWIS COUNTY.

KROGER GAS COAL COMPANY.

P. O. McWHORTER, W. VA.

No. 267. *Polar Mine—Redstone Seam—Drift Incline*.—The location of this mine is 17 miles South of Clarksburg, W. Va., on the W. Va. & P. Division of the B. & O. Railroad. It is opened up on the double entry system. The ventilating current is produced by a disc fan and conducted to the working places by wooden stoppings. The roof is good except in places where clay veins are encountered. Here it is very bad and requires attention to prevent falls, accidents, etc. No gas liberates from the coal. No dust of a dangerous character is found. The coal is undercut by picks, blasted with permissible powders, gathered and hauled to the head of the plane by horses and mules and from there it is lowered by traction to the tippie and dumped into railroad cars. State Mine Laws are observed. The capacity of the mine is from 400 to 500 tons daily. Drainage is good in most working places.

R. J. KROGER, *General Manager*.

C. F. LIMER, *Superintendent and Mine Foreman*.

UPSHUR COUNTY.

RED ROCK FUEL COMPANY.

P. O. RED ROCK, W. VA.

No. 268. *Red Rock No. 1 Mine—Redstone Seam—Drift*.—The location of this mine is 3 miles West of Buckhannon, W. Va., on the Buckhannon and Weston Branch of the B. & O. Railroad. The developments are made on the double entry system. The air current which ventilates the mine workings is produced by a disc fan with electric connections. It is conducted to the working places by wooden stoppings. The roof is fairly good except in places where clay veins are encountered and in these places it is very bad and requires very careful attention to prevent accidents. No gas found liberating at the working faces and but little dust of a dangerous character found in the mine. The coal is undercut by electric machines. It is gathered and hauled to the tippie by electric motors where it is dumped into railroad cars. This tippie is of the twin type which spans the ravine separating this mine from the No. 2 mine belonging to the same Company. The output of both mines is dumped into railroad cars from the same tippie. State Mine Laws are being observed in all important matters. The mine is capable of producing from 200 to 300 tons daily. The drainage is good.

GEORGE DEBOLT, *General Manager*.

ROBERT LANG, JR., *Superintendent*.

R. E. TABLETON, *Superintendent*.

JAMES LANG, *Mine Foreman*.

MIKE FAHEY, *Mine Foreman*.

GROVER KNIGHT, *Mine Foreman*.

RED ROCK FUEL COMPANY.

P. O. RED ROCK, W. VA.

No. 268. *Red Rock No. 2 Mine—Redstone Seam—Drift.*—This mine is located about 3 miles West of Buckhannon, W. Va., on the Buckhannon & Weston Branch of the B. & O. Railroad. The mine is opened on the double entry system. The ventilation is produced by a disc fan with electric connections. It is conducted to the working places by wooden stoppings, doors, etc. The roof is good except in places where clay veins are encountered and in these places it is very bad and requires careful timbering to prevent accidents from falls of slate, etc. No gas liberates from the coal. No dust of any consequence found in this mine. The coal is undercut by electric machines and by picks, gathered and hauled to the tippie by means of electric motor where it is dumped into railroad cars in conjunction with the output of No. 1 mine. This mine has been idle for the greater part of the year and the capacity is hard to estimate on account of the numerous clay veins and the varying conditions. State Mine Laws were observed in important matters. Drainage is difficult as the working are to the dip. The water is handled by pump.

GEORGE DEBOLT, <i>General Manager.</i>	JAMES LANG, <i>Mine Foreman.</i>
ROBERT LANG, JR., <i>Superintendent.</i>	MIKE FAHEY, <i>Mine Foreman.</i>
R. E. TARLETON, <i>Superintendent.</i>	GROVER KNIGHT, <i>Mine Foreman.</i>

NEWCOMER COAL COMPANY.

P. O. TETER, W. VA.

No. 269. *Newcomer Mine—Redstone Seam—Drift.*—This mine is located 7 miles North-East of Buckhannon, W. Va., on the Buckhannon & Belington Branch of the B. & O. Railroad. It is opened up on the double entry system. The air which ventilates the workings is produced by a furnace. It is conducted to the working faces by means of wooden steepings. The roof is very bad on account of numerous clay veins encountered and requires careful attention to prevent accidents from falls of slate. No gas liberates from the coal. Some dust is found in cold weather in the mine workings, which requires attention. The coal is undercut with picks, gathered and hauled to the tippie by means of mules and horses where it is dumped into railroad cars. The mine has operated but very little during the past year. The mine is capable of producing about 200 tons daily. State Mine Laws were observed. Drainage is bad along the Main haulway. In the working places it is good.

F. O. BLUE, *General Manager.*
J. L. JEFFREYS, *Supt. & Mine Foreman.*

BUCKHANNON RIVER COAL & COKE COMPANY.

P. O. ADRIAN, W. VA.

No. 270. *Florence Mine No. 2—Masontown Seam (?)—Drift Inclined Plane.* This mine is located 3 1-8 miles West of Sago, W. Va., on the Coal & Coke Railroad. The openings are made on the tripple entry system. The current which ventilates the mine workings is produced by a Connellsville Centrifugal fan with electric connection. The roof is exceedingly good. No gas liberates from the working faces and no dust of any consequence found in the mine. During the past year, a complete electric system has been installed at this mine.

the coal being hoisted up the engine plane to the tippie by an electric motor by means of endless rope and hand grip, where it is dumped into railroad cars. The capacity of the mine at this time is small as only a few men are working in the mine. It will increase as developments are made, as this Company owns a large acreage of coal at this location. This mine will eventually be connected underground with No. 1 mine belonging to the same Company, which at this time is not in operation. Drainage is good. State Mine Laws are being observed.

T. S. LACKEY, *General Manager*.

I. W. RECKARD, *Supt. & Mine Foreman*.

I. J. HUMPHRIES, *Superintendent*. WADE CORLEY, *Mine Foreman*.

BUCKHANNON RIVER COAL & COKE COMPANY.

P. O. ADRIAN, W. VA.

No. 270. *Florence Mine No. 1—Masonstown Seam (?)—Drift*.—This mine is located 3 miles West of Sago, W. Va., on the Coal & Coke Railroad. It is opened on the double entry system and the ventilation is produced by a furnace. The roof is exceedingly good. The coal is undercut by picks, hauled to a temporary tippie by means of horses and mules and dumped into railroad cars. This mine has operated very irregularly during the past year. Drainage is exceedingly good. State Mine Laws were observed. ¶

T. S. LACKEY, *General Manager*.

I. W. RECKARD, *Supt. & Mine Foreman*.

I. J. HUMPHRIES, *Superintendent*. WADE CORLEY, *Mine Foreman*.

NICHOLAS COUNTY.

PARDEE & CURTIN LUMBER COMPANY.

P. O. CURTIN, W. VA.

No. 271. *Panther Mine—Sewell Seam—Slope*.—The location of this mine is 6 miles South of Curtin, W. Va., on a log railroad owned and operated by the Lumber Company. It is opened on the double entry system. The ventilation is produced by a furnace. The roof is very good. No gas liberates from the coal. The coal is undercut by picks, gathered by the miners to the rope and from there it is hauled by head rope system to the tippie and dumped into bins for local use for the locomotives used by the Lumber Company. State Mine Laws are observed in important matters. The capacity of the mine is small—from 50 to 100 tons daily. Drainage is good.

G. W. CURTIN, *General Manager*.

C. D. MAYO, *Superintendent*. J. M. BOGGS, *Mine Foreman*.

PARDEE & CURTIN LUMBER COMPANY.

P. O. CURTIN, W. VA.

No. 272. *Homing Mine—Sewell Seam—Drift*.—This mine is located 17 miles South of Curtin, W. Va., on a log railroad owned and operated by the Lumber Company. It is opened up on the double entry system. The ventilating current is produced by a furnace. The roof is of a good character. No gas liberates from the coal and no dust found in the mine, which is of danger-

ous character. The coal is undercut by picks, pushed by hand to the rope by the miners, from where it is hoisted to the drift mouth by means of head rope. From there it is lowered by traction to the bins into which it is dumped for local use of the operating Lumber Company. The drainage is bad on account of work going to the dip. The capacity of the mine is small and is regulated by the needs of the Lumber Company which use the coal for their locomotives. State Mine Laws are observed in important matters.

G. W. CURTIN, *General Manager*.

C. D. MAYO, *Supt.*

A. W. SMITH, *Mine Foreman*.

SAXMAN COAL & COKE COMPANY.

P. O. SAXMAN, W. VA.

No. 273. *Saxman No. 1—Scwell Seam—Drift.*—The location of this mine is 2 miles South of Fenwick, W. Va., on a railroad belonging to the Fenwick Lumber Company. It is opened up on the double entry system. The current which ventilates the workings is produced by a centrifugal fan with electric connections. The roof is bad and requires careful attention as to timbering to prevent falls, accidents, etc. The coal is undercut by electric machines of the chain type and it is blasted by both black and permissible explosives. It is gathered and hauled to the tippie by electric motor where it is dumped into the railroad cars. State Mine Laws are observed and no gas liberates from the coal, nor dust of a dangerous character, when properly looked after. The capacity of this mine is hard to estimate on account of local conditions, such as thinning out of the coal, etc., but will vary from 200 to 400 tons daily. Drainage is good throughout the mine.

G. R. SAXMAN, *General Manager*.

D. H. ABRAMS, *Superintendent*.

M. F. ALLENBAUGH, *Mine Foreman*.

SAXMAN COAL & COKE COMPANY.

P. O. SAXMAN, W. VA.

No. 273. *Saxman No. 2—Scwell Seam—Drift.*—This mine is located 2 miles South of Fenwick, W. Va., on a railroad owned by the Fenwick Lumber Company. It is opened and developed on the double entry system and the current which ventilates the mine workings is produced by a centrifugal fan with electric connections. The roof is very bad and requires careful attention daily as to timbering, blasting, etc., to prevent falls and accidents. No gas liberates from the coal, and no dust of dangerous character found. The coal is undercut by electric machines of the chain type. It is blasted with permissible and black powder. It is gathered and hauled to the tippie by electric motor. This tippie is used by both No. 1 and No. 2 mines and the output of both mines is dumped into railroad cars in conjunction with each other. State Mine Laws are being observed in important matters. The capacity of the mine cannot be accurately estimated on account of the pinching out of the coal and other local conditions. However, it is capable of producing about the same tonnage as that of No. 1 mine. Drainage is good.

G. R. SAXMAN, *General Manager*.

D. H. ABRAMS, *Superintendent*.

M. F. Allenbaugh, *Mine Foreman*.

SAXMAN COAL & COKE COMPANY.

P. O. SAXMAN, W. VA.

No. 274. *Saxman No. 3—Scwell Seam—Drift.*—This mine is located 3 miles South of Fenwick, W. Va., on a railroad owned by the Fenwick Lumber Company. It is opened up on the double entry system and the ventilation is produced by an open grate. The roof is of the same character as described in Saxman Nos. 1 and 2 mines belonging to the same Company and located 1 mile North of this mine. The development is very small, it being confined to entry work for prospecting, etc. The coal is produced with picks as no machinery is installed. It is gathered and hauled to the dump by a mule. The capacity of the mine is of a negligible quantity. The water is handled by pump, which is operated by the steam locomotive when it makes its trip to the mine.

G. R. SAXMAN, *General Manager.*D. H. ABRAMS, *Superintendent.*E. S. BUZZARD, *Mine Foreman.*

GREENBRIER COUNTY.

ELK LICK COAL COMPANY.

P. O. RICHWOOD, W. VA.

No. 275. *Spruce Knob Mine—Scwell Seam—Drift.*—This mine is located 12 miles South of Richwood, W. Va., on the railroad owned by the Cherry River Boom & Lumber Company, and used for the purpose of hauling their logs to the mill. The mine is opened on the double entry system. The current which ventilates the mine is produced by a centrifugal fan which is directly connected to a steam engine. It is conducted to the working faces by means of substantial stoppings, doors, etc. The roof is exceedingly good in most sections of the mine and but little trouble is experienced from falls, etc., in the working places. No gas liberates from the coal. No dust of dangerous character found in the mine. The undercutting is done with picks. It is blasted with black powder and gathered and hauled to the tippie by mules where it is dumped into railroad cars. State Mine Laws are being observed. The mine is capable of producing from 200 to 300 tons daily. Drainage is bad in some sections on account of local dips, etc.

H. W. ARMSTRONG, *General Manager.*HARRY P. JONES, *Supt. & Mine Foreman.*

UPSHUR COUNTY.

EAST GRAFTON COAL COMPANY.

P. O. LORENTZ, W. VA.

No. —. *Lorentz Mine—Redstone Seam—Slope.*—This mine is located 3½ miles West of Buckhannon, W. Va., on the Buckhannon & Weston Branch of the B. & O. Railroad. It is opened up on the double entry system. The current which ventilates the mine workings is produced by a centrifugal fan with direct steam connections. It is conducted to the working places by serviceable stoppings. The roof is good except in places where clay veins are encountered and there it is very bad and requires careful timbering, etc., to prevent falls of slate and accidents from happening. These clay veins are very numerous. Slight traces of gas liberate at some of the advanced working faces, but is

cared for by means of sufficient ventilation. Dust is a factor that is necessary to be looked after in this mine. The coal is undercut by picks, hauled by a pony to the side track at the foot of the slope on the interior of the mine and from there it is hoisted to the tippie by head rope and dumped into railroad cars. The capacity of the mine is about 200 tons daily. State Mine Laws are being observed. Drainage good in all the important working sections of the mine, the water being pumped from the foot of the slope to the outside. This mine has not operated any except by this Company, since the date of an explosion which happened in this mine several years ago. It was then operated under the name of the Pennsylvania Consolidated Coal Company. For that reason, it was omitted from the report last year.

W. C. SCRIMSHAW, *Pres. & Mgr.*

OKEY MALCOLM, *Mine Foreman.*

JOSEPH KADELL, *Superintendent.*

OKEY MALCOLM, *Fire Boss.*

THIRD DISTRICT.

GENERAL SUMMARY FOR THE THIRD MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYES.										Production of	
			Inside.						Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,000 lbs.	
Barbour . . .	13	4	2	60	252	68	133	713	155	5	160	873	679,451	1,475
(Part)														
Monongalia . .	7	2	195	62	11	82	350	50	37	87	437	382,164	55,994	
Preston	15	3	518	190	64	232	1,004	141	107	248	1,252	841,801	196,031	
Taylor	10	2	245	237	32	137	651	118	7	125	776	731,300	6,452	
Total	45	11	1,218	741	175	584	2,718	404	156	620	3,338	2,634,716	259,952	

HON. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

DEAR SIR:—I herewith submit my annual report as Inspector of the Third District of West Virginia for the year ending June 30, 1912. This District is composed of the following counties:

Taylor, Preston, Monongalia and all of the mines in Barbour county except one.

The coal business has been dull in this District during the past year and very few of the mines have worked regularly and some of them have not been in operation at all.

It gives me pleasure to report that the mines, as a general proposition, are in better condition than they have ever been before, in so far as ventilation and general safety is concerned and especially the mines that have been working regularly during the past fiscal year.

The mine managers and operators have all shown a willingness to adopt any methods that I have recommended or suggested, after showing good cause for such suggestions and recommendations, that tend to put their mines in a safer and more sanitary condition and especially in regard to taking care of coal dust, which is a matter that has to be watched very closely in this District. I have always insisted that all of the coal dust be removed from the mines and

that portions of it that cannot be loaded out, be kept watered, either by sprinkling or by injecting steam into the intake air current. Several of the companies in this District have equipped their mines for the induction of steam into same and practically all of them have made, or are making arrangements to comply with the orders issued by you to the mines through the various inspectors, relative to the humidity during the fall and winter months. Many of the mines have electric pumps on their water cars with hose attached for sprinkling, while others have the old fashioned water cars to keep the dry sections moistened.

It gives me pleasure to report that in my District during the past year that we have had but very few accidents and the fatal and non-fatal accidents which have occurred from the different causes, have practically all been due to the carelessness on the part of the men who were killed or injured and disobedience to the instructions given them by officials in charge of the mines where such accidents occurred. In one instance in this District, the mine foreman compelled the miner to set a prop in his working place and immediately after the foreman had gone out, the miner took an ax and knocked the prop out and the roof fell on him, killing him instantly.

The following new mines are now being opened up and developed in this District:

The Elkins Coal & Coke Company are opening three mines near Bretz, W. Va. The Maryland Coal Company is opening up one mine near Wendall, W. Va. The Grafton Coal & Coke Company is opening one mine near Simpson, W. Va. The Gorman Coal & Coke Company is opening up one mine near Austin, W. Va.

The Davis Coal & Coke Company is opening up one mine near Dartmore, W. Va., and also one near Newburg, W. Va. The latter mine referred to is a shaft opening.

The three new mines that the Elkins Coal & Coke Company are opening up will increase the output of that Company about 5,000 tons per day. They will be located on the M. & K. Railway and equipped with the most modern up-to-date equipment in every detail.

At the least calculation, when all of these mines are in operation, it will increase the production in this District from nine to ten thousand tons daily by the end of the next fiscal year.

In conclusion, I wish to say that with the exception of the few arrests that I have made, my relations with the miners and mine operators have been very pleasant and I take this opportunity to thank the operators, managers, superintendents and miners for the many courtesies shown me in the discharge of my duties and their co-operation in endeavoring to improve the mining conditions generally. I also thank you, as Chief of the Department of Mines for the able assistance and advice you have given me and for your courteous treatment and I wish the Department of Mines continued success.

Respectfully submitted,

L. D. VAUGHN.
Inspector Third District.

GREAT SCOTT COAL & COKE CO.

MORGANTOWN, W. VA.

General Office of Company, Morgantown, W. Va.

No. 301. *Great Scott Mine.—Drift.—Pittsburg Seam.*—This mine is located three miles north of Morgantown, W. Va., on the Monongahela river, operating on the double entry system. The mine is naturally ventilated and on my last visit the ventilation was not what it should be, however, there were only ten men in the mine and there was sufficient air for this number of men and the company is driving to the outside with a view of installing a gasoline fan.

The main heading has been driven through the hill, a distance of about three thousand feet. The coal is of a good quality and the natural conditions are excellent. Owing to the depressed condition of the coal business, they have not operated regularly during the past two years. The coal is conveyed across the Monongahela river by means of ropes and buckets to a side track on the B. & O. Railroad, where it is dumped into the cars.

ALEX. TATE, *Manager*,A. G. TATE, *Supt. & Mine Foreman*,*Morgantown, W. Va.**Morgantown, W. Va.**ANTLER COAL COMPANY.*

ROUND BOTTOM, W. VA.

General Office of Company, Fairmont, W. Va.

No. 302. *Grant Mine.—Drift.—Pittsburg Seam.*—This mine is located on the west side of the Monongahela river, six miles south of Morgantown on the B. & O. Railroad and is operating on the double entry system. The ventilation is produced by a furnace and on my last inspection, was very good.

The roof and timbering is good, except where it is worked near the crop and the roof at these points is in bad shape. Drainage is good.

The coal is conveyed across the river by ropes and buckets to a siding on the B. & O. Railroad where it is dumped into the cars.

T. W. ARNETT, *Manager*,CHARLES GANDY, *Mine Foreman*,*Fairmont, W. Va.**CONSOLIDATION COAL COMPANY.*

General Office of Company, Fairmont, W. Va.

No. 303. *Consolidation No. 30 Mine.—Drift.—Pittsburg Seam.*—This mine is located twelve miles north of Fairmont on the F. M. & P. Railroad, operating on the double entry system. The ventilation is natural and I have always found it very good. The entries and the majority of the rooms are driven to the outcrop which makes the air good. The head coal is left in some parts of the mines, which makes a very good roof. Timbering is good. Blankets and stretchers are kept on hand and mile rules are posted.

There has never been an air record kept at this mine as there are so many openings outside that it is a hard matter to get a correct reading.

H. H. WATSON, *Manager*,HARRY S. TOOTHMAN, *Supt.**Fairmont, W. Va.*C. H. JOHNSON, *Mine Foreman*,*Beckwood, W. Va.*

PITTSBURG STEAM COAL COMPANY

General Office of Company, Fairmont, W. Va.

No. 304. *Opekiska Mine.—Drift.—Pittsburg Seam.*—This mine is located at Opekiska, W. Va., ten miles north of Fairmont, W. Va., on the F. M. & P. Railroad, operating on the double entry system and is naturally ventilated and the air is very good as there are several openings to the outside. There are only a few men working in this mine.

The mine laws are complied with.

J. R. BAILEY, *Gen. Mgr. & Supt.*JAMES WINNEY, *Mine Foreman.**Fairmont, W. Va.**ELKINS COAL & COKE COMPANY.*

General Office, Morgantown, W. Va.

No. 305. *Sabraton Mine Nos. 4 & 5.—Drift.—Pittsburg Seam.*—This mine is located 2½ miles south of Morgantown, W. Va., on the M. & K. Railroad and is operating on the double entry system. This mine is well ventilated by a fan and the air is well distributed through the rooms and headings. Roof generally bad and requires careful timbering.

The coal is hauled about one mile on a tram road by a motor on the M. & K. Railroad, where it is dumped into the cars. Drainage good and mines laws complied with.

J. B. HANFORD, *Gen. Supt.*FLOYD GANDY, *Mine Foreman.**Morgantown, W. Va.**ELKINS COAL & COKE COMPANY.*

General Office, Morgantown, W. Va.

No. 306. *Richard Mine No. 1.—Drift. Upper Freeport Seam.*—This mine is located four miles south of Morgantown, W. Va., on the M. & K. Railroad and is operating on the double entry system. The ventilation is produced by a 20 ft. fan and is well distributed throughout the mine. The roof is good, it being a hard bone coal and is taken down in the headings for height and is left up in the rooms. This is a very dry and dusty mine, but the dust is well cared for at all times. In addition to the other precautions they have the discharge from the fan going into the intake and the fan is kept running constantly. Timbering is good and the mine laws are complied with.

J. B. HANFORD, *Gen. Supt.*OLIVER BARBARD, *Mine Foreman.**Morgantown, W. Va.**ELKINS COAL & COKE COMPANY.*

General Office, Morgantown, W. Va.

No. 307. *Elkins No. 3 Mine.—Drift. Upper Freeport Seam.*—This mine is located on the M. & K. Railroad and the entire output of the mine is used by the railroad company for engine fuel. The mine is well ventilated and roof and timbering is good. The mine laws are complied with.

J. B. HANFORD, *Gen. Supt.*OLIVER BARBARD, *Mine Foreman.**Morgantown, W. Va.*

PRESTON COUNTY.

ELKINS COAL & COKE COMPANY.

General Office, Morgantown, W. Va.

No. 308. *Bretz Mine No. 2.—Drift, Upper Freeport Seam.*—This mine is located at Bretz, W. Va., on the M. & K. Railroad, operating on the double entry system. The ventilation is produced by a 16 ft. fan and is well distributed throughout the mine. Drainage good and the second opening meets the requirements of the law. Blankets and stretchers are kept on hand and

J. B. HANFORD, *Gen. Supt.*ROBERT L. WOLFE, *Mine Foreman.*JOE HANFORD, *Local Supt.*

the mining law is fully complied with.

ELKINS COAL & COKE COMPANY.

General Office, Morgantown, W. Va.

No. 309. *Masontown No. 6.—Drift, Upper Freeport Seam.*—This mine is located at Masontown, W. Va., on the M. & K. Railroad and is operating on the double entry system. The ventilation is produced by a 16 ft. fan and is good. Drainage good and the mine laws are fully complied with.

J. B. HANFORD, *Gen. Supt.*ARTHUR SPENCER, *Mine Foreman.*JOE HANFORD, *Local Supt.*

Masontown, W. Va.

Morgantown, W. Va.

PRESTON COUNTY COKE COMPANY.

General Office, Morgantown, W. Va.

No. 310. *Cascade Mines Nos. 1, 2, 3.—Drift, Upper Freeport Seam.*—These mines are located at Cascade, W. Va., on the M. & K. Railroad, operating on the double entry system. Nos. 1 and 3 are ventilated by a 12 foot steam driven fan and the ventilation is good in all parts of the mine. No. 2 is ventilated by a 4 foot fan, electrically driven, which produces good results. Drainage good. Practically all of the coal produced is used in the manufacture of coke. They have about 200 ovens. The mine laws are complied with.

EVEHART BEIERE, *Manager and Supt.*M. L. FORD, *Mine Foreman.*

Morgantown, W. Va.

Cascade, W. Va.

ELKINS COAL & COKE CO.

General Office, Morgantown, W. Va.

No. 311. *Kingwood Mines Nos. 1, 2, 4.—Drifts, Upper Freeport Seam.*—These mines are located one mile North of Kingwood on the M. & K. Railroad, operated on the double entry system. The No. 1 mine is ventilated by a 16 foot fan and the No. 2 by a 4 foot fan and the ventilation is good throughout all three openings. Roof, timbering and drainage good and the mine laws are fully complied with.

J. B. HANFORD, *Gen. Sup't and Manager.*

Morgantown, W. Va.

IRONA COAL & COKE CO.

General Office, Philadelphia, Pa.

No. 312. *Irona No. 2 Mine.—Drift, Upper Freeport Seam.*—This mine is

located two miles west of Kingwood on the West Virginia Northern Railroad, operating on the double entry system. The ventilation is produced by a fan and does not give very good results due to the mine being cut up very badly and the brattice in bad shape. Drainage fairly good. Blankets and stretchers are kept on hand and mine rules are posted.

J. H. WEAVER, *Manager*.

J. D. WILLIAMS, *Mine Foreman and Superintendent*,
Irona, W. Va.

BORGMAN COAL CO.

TUNNELTON, W. VA.

No. 313. *Borgman No. 1 Mine—Drift, Upper Freeport Seam.*—This mine is located four miles West of Kingwood on the West Virginia Northern Railroad and is operated on the double entry system. It is ventilated by a fan which produces good results throughout the mine. Roof, timbering and drainage good and the mine laws are well observed.

F. W. BORGMAN, *Sup't and Mine Foreman*,
Tunnelton, W. Va.

KINGWOOD COAL COMPANY.

General Office, Philadelphia, Pa.

No. 314. *Hovesville Mine—Drift, Upper Freeport Seam.*—This mine is located five miles west of Kingwood on the West Virginia Northern Railroad and is operated on the double entry system. Ventilation is produced by a furnace and does not give very good results. Timbering and general safety fairly good. Blankets and stretchers are kept on hand. The mining law is generally well complied with.

WILLIAM ATKINS, *Manager*,
Philadelphia, Pa.

ISAAC COXN, *Sup't.*,
Hovesville, W. Va.

ATLANTIC COAL COMPANY.

General Office, Philadelphia, Pa.

No. 315. *Atlantic Mine No. 1—Drift, Upper Freeport Seam.*—This mine is located three miles West of Tunnelton on a branch of the West Virginia Northern Railroad and is owned and operated by J. H. Weaver, on the double entry system. Roof, timbering and drainage good. They have not operated regularly during the past four years on account of the market conditions and the mine was idle at the close of this fiscal year. The mining laws are fully complied with.

J. H. WEAVER, *Manager*.

J. D. WILLIAMS, *Sup't.*

S. H. JORDEN.

General Office: Corinth, W. Va.

No. 316. *Corinth Mine—Drift and Slope—Upper Freeport Seam.* This mine is located on the B. & O. Railroad on Snowy Creek and is operating on the double entry system. There are two openings at this place one drift and one slope, but the slope has not worked for some time and is filled with water. The drift is ventilated by a fan and does not produce very good results on account of the condition of the air way and the stoppings which I have

recommended be put in proper condition on my last visit to this mine. There were only 11 men employed inside the mine and the general condition of same was bad.

S. H. JORDEN, *Supt. and Mine Foreman.*

MERCHANTS COAL CO.

General Office: Pittsburg, Pa.

No. 317. *Tunnelton Mine.—Drift.—Upper Freeport Seam.* This mine is located at Tunnelton, W. Va., on the B. & O. Railroad and is operated on the double entry system. The ventilation is produced by a 16 foot fan and is well distributed throughout the mine. Roof, timbering and drainage good, except in a few places the drainage can be improved upon and recommendations have been made, which will correct this. This is one of the largest producers in this District and they have just recently erected a new steel tippie and a picking table. The mine laws are fully observed.

JAMES D. O'NEIL, *Manager.*

Pittsburg, Pa.

THOMAS STIFF, *Superintendent.*

DAVID JACK, *Mine Foreman.*

Tunnelton, W. Va.

GORMAN COAL & COKE COMPANY.

General Office: Baltimore Md.

No. 318. *Gorman Mine No. 1.—Drift.—Upper Freeport Seam.* This mine is located one mile west of Tunnelton, W. Va., on the B. & O. Railroad and is operated on the double entry system. The ventilation is natural and is very poor. The mining laws are generally well observed. Roof and timbering good. This mine has operated very little during the past year.

GUS GORMAN, *Manager.*

T. M. MURPHEY, *Superintendent.*

B. F. WILLIAMS, *Mine Foreman.*

GORMAN COAL & COKE COMPANY.

General Office: Baltimore Md.

No. 318-B. *Gorman Mine No. 2.—Drift.—Upper Freeport Seam.* This mine is located on a branch of the B. & O. Railroad near Austin, W. Va., and is operated on the double entry system. The ventilation is produced by a 10 foot fan, with good results. Roof, timbering and drainage good and the mining laws are well observed.

T. M. MURPHY, *Superintendent and Mine Foreman.*

Austin, W. Va.

GORMAN COAL & COKE COMPANY.

General Office: Baltimore, Md.

No. 318-C. *Gorman Mine No. 3.—Drift.—Upper Freeport Seam.* This mine is located on a branch of the B. & O. Railroad, near Austin, W. Va., and is only working four men and I have not made an inspection of same this year. They expect to close it up entirely within the next few weeks.

THOMAS MURPHY, *Supt. and Mine Foreman.*

AUSTEN COAL & COKE COMPANY.

General Office, New York, N. Y.

No. 319. *Austen Mine No. 1.—Drift.—Upper Freeport Seam.* This mine is located at Austen, W. Va., on the B. & O. Railroad and is operated on the double entry system. The ventilation is produced by a force fan and is well distributed throughout the mine. The roof is dangerous but timbering is well looked after, and the mining law is complied with.

C. H. ZEHNDER, *Manager.*F. W. HOCHLER, *Supt.*ED. WHITAKER, *Mine Foreman.**AUSTEN COAL & COKE COMPANY.*

General Office, New York, N. Y.

No. 320. *Austen No. 2 Mine.—Drift.—Upper Freeport Seam.* This mine is located near Austen, W. Va., and is operated on the double entry system. The ventilation is produced by an 8 foot fan and is well distributed throughout the mine. The roof as a general proposition is very bad, but is well cared for by being properly timbered. The second opening meets with the requirements of the law. Blankets and stretchers are kept on hand and mine rules are posted. The mine laws are generally well observed.

C. H. ZEHNDER, *Manager.*F. W. HOCHLER, *Supt.*JOHN COOK, *Mine Foreman.**HITE COAL & COKE CO.*

General Office, Fairmont, W. Va.

No. 321. *Dirie Mine.—Drift.—Upper Freeport Seam.* This mine has worked but very little during the past year and is opened up on the double entry system. The ventilation is produced by a furnace, which has never given good results. The second opening meets the requirements of the law. Drainage and timbering good. The mine laws are generally well observed.

R. H. HITE, *Manager.**Fairmont, W. Va.**HIORRA COKE CO.*

General Office, Uniontown, Pa.

No. 322. *Vulcan Mine.—Drift.—Upper Freeport Seam.* This mine is located four miles east of Newburg on a branch of the B. & O. Railroad and is operated on the double entry system. They have worked but very little during the past year. The ventilation is produced by a fan and has been found generally good. They have encountered many clay veins in this operation and the development on this account has been very slow. The mining laws are fairly well observed.

GEORGE HUMPHRIES, *Supt.*GRANT DEAL, *Mine Foreman.**HAMILTON COAL & COKE COMPANY.*

NEWBURG, W. VA.

General Office, Cumberland, Md.

No. 323. *Newburg.—Shaft.* This is a shaft mine located at Newburg, W. Va. on the B. & O. R. R. And is 360 feet deep to the lower seam which is the Kittanning Seam, the one above is the upper Freeport it is 170 from the

surface this seam has not been worked any for some time, this seam has been abandoned by the present company or receivers.

This mine is very gaseous and is worked with locked safety lamps of the Wolf type; and is ventilated by a 20 foot fan and the ventilation is conducted to the working faces of all the places.

This mine is in the hands of a receiver, and has never been paying to operate it owing to the output being so small that the coal cost too much to get it out. This is fine seam of coal when mined properly, and with a law out of a few thousand dollars could be made to pay.

This mine is now in a better shape than it was last report but plenty of room for improvement yet. The canvas and brattice are kept up close to the face of all working places and the gas that is given off is carried off by the air current and is made safe in this respect.

F. A. HUSTED, *Manager*.

JOHN HUMPHERY, *Mine Foreman*.

L. C. STEVENSON, *Superintendent*.

JOHN LENNON, *Fire Boss*.

HAMILTON COAL & COKE COMPANY.

General Office, Cumberland, Md.

No. 323. *Newburg Shaft.—Shaft.—Lower Kittaning Seam.* This is a shaft mine, located at Newburg, W. Va., on the B. & O. Railroad, and is 360 feet deep to the lower seam. The upper Freeport seam is 170 feet from the surface, but it has not been worked for some time, only operating in the lower. This mine is very gaseous and is worked with locked safety lamps exclusively. The ventilation is produced by a twenty foot fan, which gives good results. This mine is now in the hands of the receivers. There has been considerable improvement at this place since my last report. This operation has given me much concern, as it is very dangerous on account of the gas, but they have the brattice work in good shape and the gas is carefully looked after and is not allowed to accumulate. The mining laws are well observed.

F. A. HUSTED, *Manager*.

JOHN HUMPHERY, *Mine Foreman*.

L. C. STEVENSON, *Superintendent*.

JOHN LENNON, *Fire Boss*.

TAYLOR COUNTY.

WINONA COAL & COKE CO.

General Office, Dale, Pa.

No. 324. *Winona Mine.—Drift.—Upper Freeport Seam.* This mine is located at Coffman, four miles west of Grafton, on the Wheeling branch of the B. & O. Railroad and is operated on the double entry system. The ventilation is produced by a fan and is distributed throughout the mine by the split air system, and is generally good throughout. The roof is fairly good and timbering is well looked after. The mining laws are generally well observed.

S. D. HIXSON, *Manager*.

D. F. TARR, *Superintendent*.

Ruff's Dale, Pa.

R. R. BEVERAGE, *Mine Foreman*.

McGRAW COAL COMPANY.

General Office, Frostburg, Md.

No. 325. *New York Mine No. 1.—Drift.—Pittsburg Seam.* This mine is located on the Parkersburg branch of the B. & O. Railroad, seven miles west of

Grafton, operating on the double entry system. The ventilation is produced by a 16 foot fan and since it has been run by electricity, it has been giving good results. There are quite a number of clay veins in this seam and most of them given off more or less fire damp and for this reason, the mine requires very close attention. The mine is also very dry, but the dust is well looked after, by being removed and kept watered. The roof and timbering is well cared for and the mining law is complied with.

JOHN BROPHEY, *Manager*.

CHARLES WILHELM, *Mine Foreman*.

JAMES BLAIR, *Superintendent*.

V. L. DAVIS, *Fire Boss*.

GRAFTON COAL & COKE COMPANY.

General Office, Grafton, West Virginia.

No. 326. *Sand Lick Mine.—Drift.—Pittsburg Seam.* This mine is located on a branch of the B. & O. Railroad near Simpson, W. Va., operating on the double entry system. The ventilation is natural and has never been very good. All the work in this mine is now on pillars and is about worked out entirely. Roof, timbering and drainage fair, and the mine laws are generally well observed.

L. B. BRYDON, *Manager*.

ED. FAHEY, *Superintendent*.

JOHN P. MCGRAW, *Mine Foreman*.

MARYLAND COAL COMPANY.

General Office, No. 1 Broadway, New York.

No. 327. *Wendle Mines—Nos. 1, 2, 3, 4, 5, 6—Drifts.—Pittsburg Seam.* These mines are located on a branch of the B. & O. R. R. eleven miles west of Grafton and are operating on the double entry system. All of these openings are ventilated by fans, which give good results. Roof, timbering and drainage fair. The mining laws are complied with.

E. R. CLAYTON, *Superintendent*.

WM. KEEF, *Mine Foreman*.

T. B. DAVIS COAL COMPANY.

General Office, Piedmont, W. Va.

No. 328. *T. B. Davis Mines Nos. 1-2.—Drift.—Pittsburg Seam.* These mines are located ten miles west of Grafton, on the Parkersburg branch of the B. & O. Railroad and are operating on the double entry system. The ventilation is produced by a fan and is well distributed throughout the mine. Roof, timbering and drainage good and the mine laws are complied with.

WM. HESKETT, *Manager*.

Piedmont, W. Va.

WM. DRAINER, *Mine Foreman*.

W. B. WOLF, *Superintendent*.

Flemington, W. Va.

PITTSVEIN COAL COMPANY.

General Office, New York City.

No. 329. *Flemington Mine No. 4.—Drift.—Pittsburg Seam.* This mine is located at Flemington on the B. & O. Railway and is operating on the double entry system. Ventilation is produced by a 10 foot electrically driven fan

which gives good results. This is a machine mine and the cutting is done with a chain machine and the coal is hauled to the tippie by electric motors. The mining laws are observed.

JOHN DELANEY, *General Manager*.

15 Broad St., New York City.

GEORGE BRACKETT, *Superintendent*.

Flemington, W. Va.

G. R. W. JOHNSON, *Mine Foreman*.

ROESMONT COAL COMPANY.

General Office, Philadelphia, Pa.

No. 330. *Rosmont Mine*.—*Drift*.—*Pittsburg Seam*. This mine is located at Tryconnel, twelve miles west of Grafton on the B. & O. Railroad and is operated on the double entry system. The ventilation is produced by a fan, which gives good results. Drainage, roof and timbering are good and the mine laws are well observed.

J. H. WEAVER, *Manager*.

JAMES STARFORD, *Superintendent*.

W. M. STARFORD, *Mine Foreman*.

HARRISON COAL COMPANY.

Tryconnell, W. Va., General Office.

No. 331. *Smith Mine No. 1*.—*Drift*.—*Pittsburg Seam*. This mine is located twelve miles west of Grafton on the B. & O. Railroad and is operating on the double entry system. The ventilation is produced by a fan and is fairly good, but is not as well distributed throughout the mine as it should be. This is a small mine and only a few men are employed. Roof, timbering and drainage are good and the mine laws are complied with.

H. G. SMITH, *Superintendent*.

DAVID SMITH, *Mine Foreman*.

STERLING COAL COMPANY.

General Office, Cleveland, Ohio.

No. 332. *Cecil Mine*.—*Drift*.—*Upper Freeport Seam*. This mine is located on the G. & B. Railroad seven miles south of Grafton and is operated on the double entry system. The ventilation is produced by a furnace and is not very good. Roof, timbering and drainage fairly good and the mine laws are generally well observed.

H. D. HILMAN, *General Manager*.

CLYDE LEWIS, *Superintendent*.

Cleveland, Ohio.

Grafton, W. Va.

M. C. BRADY, *Mine Foreman*.

Cecil, W. Va.

SUNNYSIDE COAL COMPANY.

General Office, Grafton, W. Va.

No. 333. *Sunnyside Mine*.—*Drift*.—*Upper Freeport Seam*. This mine is located on a branch of the B. & O. Railroad near Hardman and is opened up on the double entry system. Ventilation is produced by a fan is generally good. Roof, timbering and drainage good and the mine laws are well observed.

L. B. BRYDON, *Manager*.

THOMAS DAILY, *Sup't and Mine Foreman*.

BARBOUR COUNTY.
LAUREL CREEK COAL COMPANY.

General Office Grafton, W. Va.

No. 334. *Laurel Creek Mine.—Drift.—Upper Freeport Seam.* This mine is located on the G. & B. Railroad nine miles north of Philippi and is opened up on the double entry system. The ventilation is produced by a furnace and has never been very good. This is a small opening and is practically all pillar work and for this reason they have not installed a fan. Roof, timbering and drainage fairly good and the mine laws are complied with. 311

L. B. BRYDON, *Manager.*

IRA HUFFMAN, *Mine Foreman.*

W. S. BRYDON, *Supt.*

TYGARTS RIVER COAL COMPANY.

General Office, Clearfield, Pa.

No. 335. *Arden Mine.—Drift.—Upper Freeport Seam.* This mine is located eight miles north of Philippi, W. Va., on the G. & B. Railroad and is operated on the double entry system. The ventilation is produced by a fan which gives good results. Constant attention to dust is required at this mine as it is very dry, but this matter is carefully looked after. Roof timbering and drainage are good and the mine law is generally well complied with.

C. SHILLINGSFORD, *Manager.*

GEORGE GATTIN, *Mine Foreman.*

CHARLES A. COCK, *Supt.*

MIDLAND COAL & COKE COMPANY.

General Office, Scottdale, Pa.

No. 336. *Midland Mine.—Shaft.—Upper Freeport Seam.* This mine is located at Hackers Junction on the Berryburg branch of the G. & B. Railroad and is opened up on the double entry system. This shaft is 150 feet deep. The ventilation is produced by a 10 foot fan which gives good results. The drainage is very bad and at times the mine fills up with water. The principal part of the coal produced at this mine is converted into coke. Roof is bad, but timbering is well looked after. The mining laws are well observed.

W. B. HURST, *Manager.*

DAN COSTELLO, *Supt. and Mine Foreman.*

CONSOLIDATION COAL COMPANY.

General Office, Fairmon, W. Va.

No. 337. *Consolidation No. 37 Mine.—Drift.—Pittsburg Seam.* This mine is located at Berryburg, W. Va., about four miles from Hackers Junction, on the Berryburg Branch of the G. & B. Railroad and is opened up on the double entry system. The ventilation is produced by two fans, one seven foot and the other eleven foot, which produces good results. Roof, timbering and drainage fairly good.

This mine liberates some explosive gas, especially whenever a clay vein is struck, but not in very great quantities however it is well looked after. Safety powder is used exclusively and shot firers are employed. The mine laws are generally complied with.

H. H. WATSON, *Manager.*

LEE COTTERELL, *Mine Foreman.*

W. W. FERGUSON, *Supt.*

EARNEST LOVE, *Mine Foreman.*

A. A. SHAW, *Fire Boss.*

S. H. SHAW, *Fire Boss.*

MERIDEN COAL MINING COMPANY.

General Office, Philadelphia, Pa.

No. 338. *Meriden Nos. 1-2-3-4.—Drift.—Upper Freeport Seam.* These mines are located about $1\frac{1}{2}$ miles from Philippi, W. Va., on the G. & B. Railroad and is operating on the double entry system. The ventilation is produced by a 16 foot fan and is good. These openings are all connected underground. This mine is dry and dusty, but this dust is well cared for and exhaust steam from the fan is conducted into the mine. Roof, timbering and drainage fairly good. The mining laws are well observed.

LEE J. SANDBRIDGE, *Sup't and General Manager.*H. D. HURSHMAN, *Mine Foreman.*

GRAFTON FUEL COMPANY.

General Office, Grafton, W. Va.

No. 339. *Lillian No. 1 Mine.—Drift.—Mahoning Seam.* This mine is located at Lillian, W. Va., on the G. & B. Railroad, five miles south of Philippi and is opened up on the double entry system. The ventilation is produced by a furnace. The mine has not been in operation for several years and I have not made an inspection of it.

L. B. BRYDON, *Manager.*W. S. BRYDON, *Superintendent.*

GRAFTON FUEL COMPANY.

General Office, Grafton, W. Va.

No. 339. *Lillian No. B Mine.—Drift.—Upper Freeport Seam.* This mine is located at Lillian, W. Va., on the G. & B. Railroad five miles south of Philippi and is opened up on the double entry system. The ventilation is produced by a 13 foot fan which gives good results. Roof, timbering and drainage good and the mine laws are generally well observed.

L. B. BRYDON, *Manager.*THOS JONES, *Mine Foreman.*W. S. BRYDON, *Sup't.*

CENTURY COAL COMPANY OF W. VA.

General Office, Baltimore, Md.

No. 340. *Century Mine No. 1.—Shaft, Red Stone Seam.*—This mine is located on a branch of the B. & O. Railroad, four miles from Loucky Junction. The ventilation is produced by a 13 ft. fan and has always been very good and is well distributed throughout the mine. There is some gas generated here but is well looked after. Safety powder is used exclusively and shot firers are employed. There are three main splits in the current and a number of sub-splits. Each heading gets fresh air from the surface and this makes the air go all over the mine. The stoppings are all built of concrete and kept in good shape. This is a shaft opening, but it has natural ventilation. A heading has been driven to the outside and a ditch is cut about 8 ft. or 9 ft. deep which thoroughly drains the mine. Roof and timbering good and the mine laws are complied with.

BEN BISSELL, *Manager.*JOHN PHILLIPS, *Sup't.*A. B. MCMURDO, *Mine Foreman.*JOHN POKAS, *Fire Boss.*JOHN DONAHUE, *Fire Boss.*J. M. LOUGH, *Fire Boss.*

CENTURY COAL COMPANY OF W. VA.

General Office, Baltimore, Md.

No. 340. *Century Mine*.—*Drift*.—*Red Stone Seam*.—This mine is located on the Buckhannon Branch of the G. & H. Railroad and is opened up on the double entry system. It is now connected up to the Century No. 1 mine and is ventilated by the fan from No. 1 and the air is generally good. Roof, timbering and drainage fairly good. The mining laws are complied with.

BEN BISSELL, *Manager*.GARFIELD MUNDAY, *Mine Foreman*.JOHN PHILLIPS, *Supt.*

GAUGE COAL & COKE COMPANY.

General Office, Pittsburg, Pa.

No. 341. *Sara Mine*.—*Drift*.—This mine is located about one mile south of Junior, W. Va., on the Western Maryland Railroad and is opened up on the double entry system. The ventilation is produced by a fan which gives good results. Roof, timbering and drainage fair. This mine has been worked but very little during the past year. It changed hands last October and is now operated by the Gauge Coal & Coke Company, of Pittsburg, Pa.

The mining laws are generally well observed.

GEORGE HINKEL, *General Manager*.H. C. HASKINS, *Supt. & Mine Foreman*.

DAVIS COLLIERY COMPANY.

General Office, Elkins, W. Va.

No. 342. *Junior No. 4 Mine*.—*Drift*.—*Upper Freeport Seam*.—This mine is located at Junior, W. Va., and is operated on the double entry system. They have worked but very little in the past year, however, arrangements are now being made to operate regularly. Roof, timbering and drainage fair and the mine laws are complied with.

J. F. HEALEY, *Manager*.

HUMPHREYS COAL COMPANY.

General Office, Philadelphia, Pa.

No. 343. *Humphreys Mine*.—*Drift*.—*Upper Freeport Seam*.—This mine is located at Phillippi, W. Va., and is opened up on the double entry system. The ventilation is produced by a fan which gives good results. Roof, timbering and drainage fairly good and the mine laws are complied with.

I. A. BOURCHER, *General Manager*.JOHN SWICK, *Mine Foreman*.J. E. SHANNON, *Supt.*

LUELLA COAL & COKE COMPANY.

General Office, Phillippi, W. Va.

No. 344-A. *Adma Mine*.—*Drift*.—*Upper Freeport Seam*.—This mine is located at Adma, W. Va., on the G. & B. Railroad and is opened up on the double entry system. The ventilation is produced by a furnace and is very good. Roof, timbering and drainage good and the mine laws are complied with.

H. M. CRAWFORD, *Manager & Supt.*J. J. ROBINSON, *Mine Foreman*.

Phillippi, W. Va.

LUELLA COAL & COKE COMPANY.

General Office, Phillippi, W. Va.

No. 345. *Luella Mine.*—*Drift.*—*Upper Freeport Seam.*—This mine is located at Adma, W. Va., on the G. & B. Railroad and is opened up on the double entry system. The ventilation is produced by a furnace and is very good. Roof, timbering and drainage good. The mine laws are well observed.

H. M. CRAWFORD, *Manager & Supt.*J. J. ROBINSON, *Mine Foreman.**Phillippi, W. Va.**DAVIS COAL & COKE CO.*

General Office, Thomas, W. Va.

No. 346. *Dartmore Mine.*—*Slope.*—*Upper Freeport Seam.*—This is a new mine just started up in the past year and is being opened up for operation on the third heading system. The ventilation is produced by a fan and is very good. When this mine is fully developed the tonnage will be about 800 to 1000 tons per day. Roof, timbering and drainage good and the mine laws are well observed.

LEE OTT, *General Supt.*J. E. OTT, *Mine Foreman.*W. W. BREWER, *Mine Supt.*

FOURTH DISTRICT.

GENERAL SUMMARY FOR THE FOURTH MINING DISTRICT FOR
THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,000 lbs.
Grant.....	2	1	31	10	16	16	73	23	—	23	96	188,907	—
Mineral.....	18	—	513	20	5	116	654	113	—	113	767	655,941	—
Randolph.....	12	—	448	20	4	131	603	79	69	148	751	716,632	119,513
Tucker.....	15	—	913	20	4	402	1,339	203	59	262	1,601	1,114,732	40,710
Barbour.....	1	—	48	—	—	17	65	7	—	7	72	76,944	—
(Part)													
Total.....	48	10	1,953	70	29	682	2,734	425	128	553	3,287	2,753,156	160,223

Office of the Fourth District Mine Inspector.

Elkins, W. Va., September 21, 1912.

HON. JOHN LAING,

Chief of the Department of Mines.

Charleston, W. Va.

DEAR SIR:—I herewith respectfully submit to you my annual report as Inspector of the Fourth Mining District of West Virginia, for the year ending June 30, 1912.

All the new mines of this District opened during the last year will be found under the head of "Condition of Mines in the Fourth District" and all other mines, except several small mines in Randolph county, where the number of men employed are so small that they do not lawfully come under the jurisdiction of this Department. In all there are at present in this District, including ten sand mines, a total in round numbers of eighty mine openings. Not all of these mines are in operation at anyone time and under normal market conditions not over sixty to sixty-five coal mines will be found producing coal on any given date; however, this number of mines, some of them being very large, and distributed as they are over five different counties some of them being many miles apart, make it impossible for me to visit them as frequently as I would wish to, or the Mining Law requires. But, with conditions as we found them, and not perhaps as we would have liked to have had them—we

with the active support of the mining fraternity both miners and operators alike, and good citizens generally—although not interested in mining in any way, have given their moral support in such a way that much of the good that has been accomplished could not have been brought about without their assistance, and any attempt on my part to claim credit for the very great improvement that has taken place in the mines and mining practice, in this District during the present administration, without giving all the above named parties their just share in any words of praise in this report would be both unjust on my part and egotistical as well. I have found it necessary to prosecute but three persons during the past year, all of them were arrested for solid shooting. Justice W. A. Jones, of Thomas, W. Va., was the presiding Judge in each case, and the men were found guilty and fined.

The present Mine Law, we find adequate in most all cases; but have no hesitation in saying that Sec. 13, of the law should be amended to that extent that it would be more explicit, as to just when a Fire Boss shall be employed, and the mine fan kept in continuous motion.

As Sec. 13 now reads, it requires among other things that where dangerous quantities of gas are being liberated in a mine, that the fan must be kept in operation except when stopped for necessary repairs, and that a Fire Boss shall be employed to examine the workings daily before the men enter to begin work. What constitutes a DANGEROUS QUANTITY of gas or just who is authorized to say authoritatively when any given quantity has reached the danger point, are questions not answered by the Statute, and indeed we find much honest difference of opinion about this question among competent mining men.

In view of the fact that many of our worst explosions occur in mines where the quantity of gas liberating had not been regarded as dangerous; it is my judgement that the term DANGEROUS QUANTITIES should be stricken from the law; and at all mines known to liberate gas regardless of the minimum amount found, the mine fan should be kept in continuous motion, except when idle for necessary repairs and when the mine or sections of mine where the gas is known to liberate should be daily inspected for gas before the men enter to begin work.

In all other respects we believe the present law to be reasonably satisfactory, and with the cordial relations which exist between the Department, coal interests and general public continuing to prevail, I can see no reason why the future should not contain even brighter promise than the past.

In conclusion I desire to tender my sincere thanks to you as Chief of this Department for any and all assistance you have given me during the past year, to the Operators, Mine Officials, and Miners, for the courteous treatment that I have received at their hands, and lastly to the general public who have manifested such a lively interest in my work and welfare.

Yours respectfully,

W. B. PLASTER.

Inspector 4th W. Va. Mining District.

BARBOUR COUNTY.

DAVIS COAL & COKE CO.

WEAVER, W. VA.

General Office, Thomas, W. Va.

No. 401. *Weaver No. 3 Mine*.—This is a drift mine, operating the lower Kittanning seam on the double entry system.

The ventilation is good, roof and drainage good. Second opening complies fully with the law.

The work in this mine now consists only of pillar drawing as the coal at this point is now exhausted.

LEE OTT, *General Supt.*JAMES COVERLY, *Mine Foreman.*W. W. BREWER, *Supt.*

RANDOLPH COUNTY.

DAVIS COAL & COKE CO.

WEAVER, W. VA.

General Office, Thomas, W. Va.

No. 402. *Weaver No. 2 Mine*.—This is a drift mine, located on a branch of the Western Md. R. R., six miles from Belington, W. Va.

Aside from being somewhat larger than the No. 3, conditions are very similar to that mine, same seam of coal, and same general conditions prevailing except that a top ply of coal is taken down in this mine which gives a very frail top and a dangerous roof condition is thereby created, but the management of these mines have taken great precautions against accidents due to lack of timbering and as a consequence few men are injured in that way.

LEE OTT, *Gen. Supt.*HOMER DAVIS, *Mine Foreman.*W. W. BREWER, *Supt.*

DAVIS COAL & COKE CO.

WEAVER, W. VA.

General Office, Thomas, W. Va.

No. 403. *Weaver No. 1 mine*.—This is the oldest of the Weaver mines and until recently was the largest of all, but it is now nearly worked out and only the pillars and entry stumps remain. A rope haulage is used in this mine and a twelve foot steam fan supplies ventilation to the workings.

All lawful requirements are met at this plant.

LEE OTT, *Gen. Supt.*OPHIE SHOMO, *Mine Foreman.*W. W. BREWER, *Supt.*

DAVIS COLLIERY CO.

HARDING, W. VA.

General Offices, Elkins, W. Va.

No. 404. *Harding No. 3 Mine*.—This is a drift mine operating the lower Kittanning seam of coal on the double entry system.

This is a large mine always kept in nice condition, and the requirements of the mining law are fully complied with.

Roof and drainage good.

J. F. HEALEY, *Gen. Manager.*LESLIE WILMOUTH, *Mine Foreman.*P. J. STANTON, *Supt.*

DAVIS COLLIERY CO.

HARDING, W. VA.

General Offices, Elkins, W. Va.

No. 404. *North Drift Mine*.—This is a few opening in the opposite hill from the No. 3 and it is destined to be a large mine, but at present but little is being done only a few miners being employed there. Ventilation is by a furnace and is sufficient for the number of men employed. All the law's requirements are fully met.

J. F. HEALEY, *Gen. Manager*.LESLIE WILMOUTH, *Mine Foreman*.P. J. STANTON, *Supt.*

DAVIS COLLIERY CO.

WEST HARDING, W. VA.

General Offices, Elkins, W. Va.

No. 405. *Sivad No. 4 Mine*.—This is merely a coaling station on the Coal & Coke R. R. Nearing Roaring Creek Junction; however, this mine although a small one is kept in most excellent condition, and is in every respect a fine little mine.

J. F. HEALEY, *Gen. Mgr.*C. BOOTHE, *Mine Foreman*.ROBERT POLLITT, *Supt.*

DAVIS COLLIERY CO.

HARDING, W. VA.

General Offices, Elkins, W. Va.

No. 406. *Sivad No. 2 Mines*.—This is a collection of openings known as the Sivad. The lower Kittanning is the seam operated, developments being on the double entry system.

The coal at this point has an average height of about six feet and the roof conditions are excellent and at some time these mines will be the largest producers in the field.

At present, little is being done, but the management expects in the near future to install much machinery and provide in every way for a modern and up-to-date plant.

J. F. HEALEY, *Gen. Mgr.*ROBERT POLLIT, *Supt. and Mine Foreman*.

DAVIS COLLIERY CO.

COALTON, W. VA.

General Offices, Elkins, W. Va.

No. 407. *Coalton No. 1 Mine*.—This is a very large and strictly up to date mine and is the largest producer in Randolph county, or indeed in the 4th. District. The coal seam worked is the lower Kittanning and developments are made on the double entry system; separate traveling ways are provided for the men, no one being required to travel on the motor roads.

Roof, drainage and timbering are good. All other of the law requirements are complied with.

J. F. HEALEY, *Gen. Mgr.*WM. RILEY, *Mine Foreman*.JOE HOYLEMAN, *Supt.*WM. BISSETT, *Mine Foreman*.

DAVIS COLLIERY CO.

COALTON, W. VA.

General Offices, Elkins, W. Va.

No. 407. *Coalton No. 4 Mine*.—This is a new drift mine, opened in the opposite hill from the No. 1 and is being developed along strictly modern lines. A Jeffrey mine fan has been installed and the coal is cut by an electric chain machine of the Jeffrey type. The coal at present is being dumped over the No. 1 tippie.

J. F. HEALEY, *Gen. Mgr.*WM. RILEY, *Mine Foreman.*JOE HOYLEMAN, *Supt.**W. H. GREEN COAL CO.*

COALTON, W. VA.

No. 408. *Leroy No. 1 Mine*.—This is a drift mine operating the Lower Kittanning seam on the double entry system.

The coal at this point is found in a remarkable state of purity, and of good height, nearly all the working places measuring upwards of eight feet in height from top to bottom of the seam, with not over six inches of slate present in the coal.

W. H. GREEN, *Lessee.**BRADY COAL CO.*

MABIE, W. VA.

Main Offices, Piedmont, W. Va.

No. 409. *Klondyke No. 1 Mine*.—This is a drift mine located at Fisher on the Coalton Branch of the C. & C. R. R., eight miles from Roaring Creek Junction. Developments are in the Lower Kittanning seam, which is found on an average of about eight foot in height.

Ventilation is produced by a furnace and is sufficient for the number of men employed, drainage, roof and timbering sufficient.

Some solid shooting has been found to exist in this mine and the management has not yet been successful in eliminating it.

Other legal requirements are well observed.

A. SPATES BRADY, *Gen. Mgr.*JOHN CONDREY, *Mine Foreman.*JUDD BRADY, *Supt.**J. H. JENKINS COAL & COKE CO.*

MABIE, W. VA.

Main Offices, Douglas, W. Va.

No. 410. *Jenkins No. 1 Mine*.—This is a drift mine, developments being on the double entry system. The seam being mined is the Lower Kittanning, and is found in a remarkable state of height and purity.

Ventilation, which is by a furnace, has always been found sufficient for the number of men employed. Aside from some solid shooting all the laws governing mines are complied with.

J. B. JENKINS, *Gen. Mgr.*D. L. COULTER, *Supt. & Mine Foreman.*

W. VA. PULP & PAPER CO.

CASS, W. VA.

Main Offices of Co., Cass, W. Va.

No. 411. *Hopkins No. 1 Mine*.—This is a drift mine, operating one of the New River seams of coal on the double entry system. The mine is located in the heart of the Rich Mountain range, 87 miles from Elkins, on a branch of the C. & O. R. R., the coal being hauled down the Mountain 16 miles by the Lumber Co.'s Logging Trains and most of it is used to furnish steam for the logging engines and saw mills.

E. P. SHAFER, *Gen. Supt.*EDD. SEAMONS, *Mine Foreman.**RICH MOUNTAIN COAL CO.*

HARTRIDGE, W. VA.

Main Offices, Clarksburg, W. Va.

No. 412. *Beech Creek Mine*.—This is a drift mine opened out in a small seam of coal which is generally regarded as one of the New River seams and which only about thirty inches in height, operation is possible on account of the very fine quality of the coal.

Ventilation which is produced by a furnace is sufficient for the number of men employed. These mines have recently changed management and the new Officials are very competent men and desire that their mines be made to comply with the law, and good mine practice in every particular.

J. O. BROOKS, *Gen. Mgr.*HENRY LOFTUS, *Supt.*HARLEY DAVIS, *Mine Foreman.**RICH MOUNTAIN COAL CO.*

HARTRIDGE, W. VA.

Main Offices, Clarksburg, W. Va.

No. 413. *Hartridge Mine*.—This is a new mine near the No. 1 and at time of inspection had not yet commenced shipping coal.

The same seam of coal under the same conditions as the old mine are being developed at the No. 2.

J. O. BROOKS, *Gen. Mgr.*HENRY LOFTUS, *Supt.*HARLEY DAVIS, *Mine Foreman.**RICH MOUNTAIN COAL CO.*

HARTRIDGE, W. VA.

Main Offices, Clarksburg, W. Va.

No. 413. *Hartridge No. 1 Mine*.—This is a drift mine located on a branch of the B. & O. R. R. thirteen miles up a lumber R. R. from Alexandra, and 89 miles from Elkins. The seam directly below the one operated in the Beech Creek mines is the one being mined here.

Developments are on the double and triple entry systems.

The development of this mine has been hindered greatly by a frail top which is found in many parts of the mine.

J. O. BROOKS, *Gen. Mgr.*HENRY LOFTUS, *Supt.*M. B. KETTLE, *Mine Foreman.*

RICH MOUNTAIN COAL CO.

HARTRIDGE, W. VA.

Main Offices, Clarksburg, W. Va.

No. 413. *Hartridge No. 2 Mine*.—This mine is a new drift mine opened out on the double entry system in the seam of coal directly above the No. 1 mine, it being the same coal that is being mined at Beech Creek four miles below the Town. An incline plane will be made and the coal lowered to the R. R. siding in that way.

J. O. BROOKS, *Gen. Mgr.*HENRY LOFTUS, *Supt.*M. B. KETTLE, *Mine Foreman*.*TUCKER COUNTY.**CUMBERLAND COAL CO.*

DOUGLAS, W. VA.

Main Offices, Albert, W. Va.

No. 414. *Douglas No. 5 Mine*.—This is a drift mine opened out on the double entry system, developments being made in the Lower Kittanning seam. This is an old mine and has been idle a greater part of the time during the past year. When last inspected ventilation was fairly good, roof good in most places and timbering was good with all law requirements fairly well met. For such an old mine we considered it to be in good condition.

J. B. JENKINS, *Supt.*WALTER PILL, *Mine Foreman*.*CUMBERLAND COAL CO.*

DOUGLAS, W. VA.

Main Offices, Albert, W. Va.

No. 415. *Douglas No. 1 Mine*.—This is a very large mine, well taken care of and we consider that in view of the difficulties met with in mining the Lower Kittanning seam of coal that this mine is in as good a condition in every respect as any reasonable person need expect, with all the Law requirements fully met. Developments are on the double and and triple entry system.

J. B. JENKINS, *Supt.*A. I. JENKINS, *Mine Foreman*.*CUMBERLAND COAL CO.*

DOUGLAS, W. VA.

Main Offices, Albert, W. Va.

No. 416. *Douglas No. 2 Mine*.—This is a new and up to date mine opened out in the Kittanning seam, developments being made on the double entry system. A forty inch high speed fan is used to furnish ventilation which has always been found sufficient for the number of men employed. The area of coal being available from this opening is small and not over four hundred tons of coal per day will likely ever be produced.

All the lawful requirements are fully observed.

J. B. JENKINS, *Supt.*RICHARD JENKINS, *Mine Foreman*.

DAVIS COAL & COKE CO.

COKETON, W. VA.

General Offices, Thomas, W. Va.

No. 417. *Coketon No. 37 Mine*.—This is a drift mine opened out on the double entry system, the lower Kittanning being the seam operated.

Ventilation at this mine has been improved by an air shaft put down to intersect with the most advanced workings. Drainage has lately been improved. Roof conditions are bad, however much care is used to have timbering made satisfactory.

LEE OTT, *Gen. Supt.*EDWARD BRENNAN, *Mine Foreman.*P. J. BRENNAN, *Supt.*

DAVIS COAL & COKE CO.

COKETON, W. VA.

General Offices, Thomas, W. Va.

No. 418. *Coketon No. 36 Mine*.—This is a drift mine and is one of the oldest mines in the field, but of late years many improvements have been made, it now being a large producer of coal.

We recommended that ventilatio bue materially improved in some way and the management asked permission to connect this and the No. 41 mine in order that they could secure a split of air from the large fan located at the latter mine. We understand that this has now been done and ventilation should be now entirely satisfactory.

Drainage reasonably good. Timbering well looked after and roof conditions are not very good, a dangerous draw slate being found overlying the coal in most all parts of the mine.

LEE OTT, *Gen. Supt.*WILLIAM MATHERS, *Mine Foreman.*P. J. BRENNAN, *Supt.*

DAVIS COAL & COKE CO.

COKETON, W. VA.

General Offices, Thomas, W. Va.

No. 419. *Francess No. 41 Mine*.—This is a Slope mine driven to the lower Kittanning seam, developments being on the double and triple entry system.

This mine is a new mine and the management has made every possible effort to keep it in the best of condition. The coal is low and the mine very wet, with a bad top found nearly all over the mine.

Ventilation is furnished by a fourteen foot Jeffrey fan, is very good.

Legal requirements are well met.

LEE OTT, *Gen. Supt.*ALBECK WADDELL, *Mine Foreman.*P. J. BRENNAN, *Supt.*

DAVIS COAL & COKE CO.

COKETON, W. VA.

General Offices, Thomas, W. Va.

No. 420. *Coketon No. 26 Mine*.—This is an old drift mine operating the Freeport seam on the double entry system.

This coal is very faulty and as a consequence there is no regular plan of development in the mine, as the coal lies very close the surface of the ground.

The water drips badly from the roof, and drainage is in very bad condition. Ventilation is found to be good, this being in part, to the fact that there are numerous places in the mine where the top strata has broken through to day light.

LEE OTT, *Gen. Supt.*

JOHN FOREMAN, *Mine Boss.*

P. J. BRENNAN, *Supt.*

DAVIS COAL & COKE CO.

COKETON, W. VA.

General Offices, Thomas, W. Va.

No. 420. *Coketon No. 27 Mine.*—This is a new mine opened out in the Freeport seam, developments being on the double entry system.

A fourteen foot electric mine fan was installed at this mine and other arrangements made to operate extensively, although little coal has been taken out from this opening, of late it has been connected with the No. 26 and almost all the coal hauled out through that mine.

LEE OTT, *Gen. Supt.*

JOHN FOREMAN, *Mine Boss.*

P. J. BRENNAN, *Supt.*

DAVIS COAL & COKE CO.

COKETON, W. VA.

General Offices, Thomas, W. Va.

No. 421. *Coketon No. 24 Mine.*—This is a drift mine opened out on the double entry system, developments being in the Freeport seam. As usual, with this seam of coal as found in this locality, it is full of faults and clay veins, making any regular plan of development almost impossible. Quite a large force of men however, find employment here, most of the working places being near the crop line, as the coal is found in good condition near the crop line, if anywhere in the hill. Drainage and roof is bad. Timbering reasonably good.

LEE OTT, *Gen. Supt.*

JOHN FOREMAN, *Mine Boss.*

P. J. BRENNAN, *Supt.*

DAVIS COAL & COKE CO.

BUSH, W. VA.

General Offices, Thomas, W. Va.

No. 422. *Bush No. 28 Mine.*—This is a new drift mine opened out in the Freeport seam. A mine fan has been installed, a new tippie built and arrangements made to mine coal but this seam is found in such an unsatisfactory condition at this point, that under present market conditions it seems almost impossible to operate this mine with profit, and it has been idle almost all the present year.

LEE OTT, *Gen. Supt.*

M. L. GARVY, *Supt.*

DAVIS COAL & COKE CO.

BUSH, W. VA.

General Offices, Thomas, W. Va.

No. 422. *Bush No. CR Shaft Mine.*—This is a new shaft mine 165 ft. deep.

located on the Snyders Run Branch of the Western Md. R. R., three miles from Thomas, W. Va. Developments are on the double and triple entry system, the lower Kittanning being the seam operated.

This mine is up-to-date in most every particular and is rapidly becoming a large producer of fine coal.

All the law requirements are very well complied with.

LEE OTT, *Gen. Supt.*

T. A. FLEMING, *Mine Foreman.*

M. L. GARVY, *Supt.*

DAVIS COAL & COKE CO.

General Offices, and P. O., Thomas, W. Va.

No. 423. *Thomas Shaft No. 34.*—This is a shaft mine about 200 feet deep, developments being in the lower Kittanning seam and the mine is laid off on the double entry system. This is an old mine and was for years badly neglected and conditions will hardly ever be made quite satisfactory again.

Drainage and roof is bad. Timbering and ventilation reasonably good.

LEE OTT, *Gen. Supt.*

J. A. LAKE, *Mine Foreman.*

DAVIS COAL & COKE CO.

P. O. and General Offices, Thomas, W. Va.

No. 424. *Thomas Drift Mine No. 23.*—This is a drift mine opened out in the Freeport seam and is the oldest and until recently, was the largest mine in Tucker county. At present little new development work is being done and at the present rate of pillar drawing, as well as the faulty condition of the coal as found in all the new work, there seems to be little future before this mine and it will be only a question of time before the final robbing of the stumps must commence.

A considerable amount of trouble has been experienced in so far as the majority of miners employed here persisted in blasting coal from the solid and were inclined to resent our demands that they mine their coal properly. I regret to say that we were compelled to prosecute quite a number of them for this offense in time gone by and the only prosecutions we have entered during the present year was against three miners at this mine. The present mine foreman has performed his duties better than his predecessors in having the law complied with.

LEE OTT, *General Supt.*

J. J. GARVY, *Mine Foreman.*

M. L. GARVY, *Supt.*

ARTHUR STEWART, *Fire Boss.*

DAVIS COAL & COKE CO.

THOMAS, W. VA.

General Offices, Thomas, W. Va.

No. 425. *Pendleton Run Mine.*—This is a drift mine opened out in the Freeport seam, developments being on the double entry system. Many faults have been encountered in this mine making costs of operation high. In addition to this the fan house in some way took fire and burned down and the mine was allowed to be idle the greater part of the present year, but is at present in operation.

LEE OTT, *General Supt.*

J. J. GARVY, *Mine Foreman.*

M. L. GARVY, *Supt.*

DAVIS COAL & COKE CO.

THOMAS, W. VA.

General Offices, Thomas, W. Va.

No. 426. *Thomas No. 25 Mine*.—This is a drift mine opened out in the Freeport seam, developments being on the double and triple entry system. Considerable explosive gas is liberated in this mine at times but is carefully looked after by the management.

Many of the different entries of this mine have been driven either to the crop line of the coal or are now in faults and the prospect of finding more workable coal in advance of present development is decidedly small. Roof, ventilation and drainage reasonably good. All legal requirements of the present statute are fairly well met.

LEE OTT, *Gen. Supt.*W. B. RIGGLEMAN, *Mine Foreman.*M. L. GARRY, *Supt.*JOE GOLDIA, *Fire Boss.*

DAVIS COAL & COKE CO.

PIERCE, W. VA.

General Offices, Thomas, W. Va.

No. 427. *Pierce No. 39 Mine*.—This is a new mine the coal being secured by sinking a shaft 438 feet to the lower Kittanning seam. Numerous faults and much bad roof has been encountered in the development of this mine, yet it was found when last inspected to be in good condition and gave every indication of being well looked after. The shaft bottom has been secured by brick walls of substantial construction with steel overhead supports.

A fourteen foot Jeffrey mine fan which furnishes ample ventilation has been installed. Engine houses, work shops, etc. are all constructed of brick.

LEE OTT, *Gen. Supt.*EDD WILLIAMS, *Mine Foreman.*CHAS. CONNOR, *Supt.*

DAVIS COAL & COKE CO.

PIERCE, W. VA.

General Offices, Thomas, W. Va.

No. 428. *Pierce No. 40 Mine*.—This is a shaft mine 250 feet in depth, located one mile farther up the Pierce branch of the Western Md. R. R., three miles from William, W. Va. This mine is a sister mine of the No. 39, yet conditions inside are entirely different. No faults worth notice have so far been encountered and the coal is almost free from slate or bone and has an average height of almost six feet. Roof conditions are such that development on that account need not be materially hindered, and in all we can safely say that this can be made the largest producer of coal in Tucker county.

LEE OTT, *Gen. Supt.*JAMES TAYLOR, *afterwards*CHAS. CONNOR, *Supt.*A. I. JENKINS, *Mine Foreman.*

GATZMER COAL & COKE CO.

GATZMER, W. VA.

Offices, Dobbin, W. Va.

No. 429. *Gatzmer Mine*.—This is a drift mine located at Gatzmer 8 miles from Dobbin on the Western Md. The mine was developed on the double entry system and operated for a considerable time but during the last year it

has been closed most if not all the time, on account of some dispute over the terms of a lease under which they had been operating.

We were unable to learn for certain when the mine would resume operations.
MARTIN LANE LUMBER CO., *Lessee*.

BEACON COAL & COKE CO.

Offices, Davis, W. Va.

No. 430. *Beacon Mine*.—This is a drift mine located near Davis, W. Va., on the Davis branch of the Western Md. R. R. This mine has not operated at anytime during the last year and despite the fact that there has been reports of its having started up, it is still idle.

Nothing is known of the owners or officials of the company.

DAVIS COAL & COKE CO.

General Office, Thomas, W. Va.

No. 431. *Thomas No. 28 Mine*.—This is a drift mine, operating in the Freeport seam, on the double entry system.

Ventilation is produced by a fan and is good. Roof, timbering and drainage good. The mine laws are fully complied with.

LEE OTT, *Gen. Supt.*

W. B. RIGGLEMAN, *Mine Foreman*.

M. L. GARVY, *Supt.*

GRANT COUNTY.

DAVIS COAL & COKE CO.

HENRY, W. VA.

General Office, Thomas, W. Va.

No. 432. *Henry No. 22 Mine*.—This is a shaft mine developments being made in the Freeport seam, with the mine laid out on the double entry system.

During the past year a change in officials has been made at this mine and the new superintendent has shown a disposition to take better care of the mine than his predecessor, who gave us cause for grave concern at times by his failure to comply with a number of reasonable recommendations whereby the safety of operation was sought to be secured.

The present superintendent turned the exhaust from the steam fan into the downcast shaft, also the steam from two large pumps at the shaft bottom and in other ways tried to comply with the reasonable requirements of safety in a very commendable way.

Water from the mine has given much trouble part of the present year as by the breaking of the pumps and water lines it flooded several sections of the mine for a time.

Safety powder is used exclusively to blast the coal at this mine.

LEE OTT, *Gen. Supt.*

THOMAS WELCH, *Mine Foreman*.

ROBERT GRANT, *Supt.*

JOHN BRADDACH, SR., *Fire Boss*.

JOHN BRADDACH, JR., *Fire Boss*.

DAVIS COAL & COKE CO.

HENRY, W. VA.

General Office, Thomas, W. Va.

No. 433. *Henry No. 33 Mine*.—This is an opening to the Kittanning seam,

which is at this point about two hundred feet below the Freeport seam. In the beginning both seams were worked from the same shaft, but several years ago the pumps were removed from the lower coal and the shaft permitted to fill with water. The management was expecting to pump out this water and place this mine in operation this summer but so far nothing has been done.
LEE OTT, *Gen. Supt.*

BUFFALO CREEK CUMBERLAND COAL CO.

BAYARD, W. VA.

General Offices, Commonwealth Bldg., Philadelphia, Pa.

No. 434. *Buffalo Creek Mine No. 1.*—This is a drift mine opened out in the lower Kittanning seam, on the double entry system.

Ventilation, furnished by a steam fan, is good. Roof and drainage good.

The coal at this mine is full of impurities in the shape of slate bands and black jack and is a very hard mining proposition yet conditions are usually very good in the mine, the management is trying to prevent the blasting of the coal in any way except that which will produce the most coal with the least powder. These precautions are necessary on account of the fact that mining this coal in the usual way is impossible.

RICHARD WADDELL, *Supt. and Mine Foreman.*

MINERAL COUNTY.

GLEASON COAL & COKE CO.

UPPER POTOMAC, W. VA.

Main Offices, Frostburg, Md.

No. 435. *Gleason Mine.*—This is a drift mine operating the lower Kittanning seam on the double entry system.

This mine is kept moist by the use of the exhaust from a steam pump and in other respects is well looked after. Solid shooting which was much practiced in this mine in former days is now almost a thing of the past, the present management having stood firmly against this practice.

Roof and timbering reasonably good. All legal requirements are reasonably well observed.

PHILIP BROWN, *General Manager.*

J. M. DAVIS, *Supt. and Mine Foreman.*

HAMILL COAL & COKE CO.

BLAINE, W. VA.

General Offices, Blaine, W. Va.

No. 436. *Smith Mine.*—This is a drift mine operating the lower Kittanning seam on the double entry system. This mine has been idle most of the present year and was only inspected once by us. At time of inspection we found roof good, timbering reasonably good and drainage in the parts being operated good, ventilation furnished by a twelve foot steam fan, was also good.

Requirements of the law fairly well met.

R. A. SMITH, *Supt.*

GRANT PEW, *Mine Foreman.*

WESTERN MD. COAL CO.

BLAINE, W. VA.

Main Offices of Co., Bloomington, Md. & Grafton, W. Va.

No. 437. *Wabash No. 2, 3 & 4 Mines.*—These are a collection of small drift openings made in the Freeport seam, developments being on the double entry system.

The area of coal to be mined at these openings was small and they are equipped with temporary furnaces. The company had expected to install a fan, if the prospect entry being driven into the hill to test a large body of coal beyond the original holdings of the company had proven good. This last piece of coal having proven to be of little value, we now understand that these openings will soon be abandoned.

L. V. BRYDON, *Gen. Mgr.*GILBERT SEAMONS, *Mine Foreman.*HOWARD BRYDON, *Supt.**WESTERN MD. COAL CO.*

BLAINE, W. VA.

General Offices, Bloomington, Md.

No. 437. *Kittanning No. 1 Mine.*—This is a new drift mine opened in the Kittanning seam at the foot of the inclined plane from the Freeport mine of the same company. Developments had not proceeded very far at the time of inspection by us, but although the coal at this particular point seemed to be somewhat faulty, we found the mine being started off in good condition. Solid shooting that had been always practiced at the upper mines was positively prohibited and all persons were required to properly prepare their coal before blasting. Roof conditions near the top line as was to be expected had proven bad. Timbering was good. Ventilation (the air current being created by a furnace) was good.

L. V. BRYDON, *Gen. Mgr.*GILBERT SEAMONS, *Mine Foreman.*HOWARD BRYDON, *Supt.**WESTERN MD. COAL CO.*

BLAINE, W. VA.

General Offices, Bloomington, Md.

No. 437. *Kittanning No. 2 Mine.*—This is another new drift mine located farther up the R. R. than the No. 1 mine. It is the management's present intention to connect the two mines and install one fan to ventilate both mines. Conditions at both of these mines are exactly similar, except the coal is somewhat higher at the No. 2 mine.

L. V. BRYDON, *Gen. Mgr.*GILBERT SEAMONS, *Mine Foreman.*HOWARD BRYDON, *Supt.**ABRAMS CREEK COAL & COKE CO.*

OAKMONT, W. VA.

General Offices, Piedmont, W. Va.

No. 438. *Oakmont No. 1 Mine.*—This is a drift mine operating the Freeport coal on the double entry and panel systems.

Considerable difficulty has been experienced by us during the past year in having our recommendations complied with, and this mine properly looked

after at all times, for it is very dry in most all parts if not watered down and during the cold months last winter we found a disposition on the part of the management to neglect this feature, and on this account we (assisted by Inspectors Schoew and Parsons) required the Mine Foreman to give us a written promise to adopt a permissible powder for blasting the coal and to make a better effort to keep the mine moist, as well as to see to it that he had his fan in operation three hours before the men were allowed to enter the mine to begin work.

We afterwards examined this mine during the night time and found that the promises made to keep the men out until the fan had been operated a certain length of time had not been complied with, that they were also still using black powder and that they were not as vigilant as they should have been in taking care of the coal dust.

We informed the management by letter and verbally that farther neglect to comply with these safety measures would not result to their own advantage in any way and we were made to believe that they would not err in that way again.

We regret to notice this exception to an especially harmonious year between us and the operators of this District and all the more so from the fact that as we knew this company to be composed of comparatively poor men we have always been disposed to draw the mantle of charity over them where-ever possible making an effort to assist them in every possibly way and just why they should undertake to antagonize us and to disregard instructions in such a way as to be leaving themselves without defense or excuse in a Court of Law, should an accident have resulted therefrom, has always been a blank mystery to me.
A. SPATES BRADY, *Gen. Mgr. and Supt.* JAMES CHRISTOFER, *Mine Foreman.*

BIG VEIN COAL MINING CO.

SHAW, W. VA.

General Office, Philadelphia, Pa.

No. 439. *Bakerstown Mine*.—This is a drift mine operating the upper Freeport seam on the double and triple entry systems. Ventilation furnished by steam fan, is good. Roof, timbering and drainage good. Legal requirements are very well met.

CHAS. BASHMORE, *Supt.*

WM. HARVEY, *Mine Foreman.*

MASTELLER COAL CO.

HAMPSHIRE, W. VA.

General Offices, Keyser, W. Va.

No. 440. *Hampshire Mine No. 1*.—This is a drift mine operating a seam of coal known locally as the Bakertown seam, on the double entry system. It is an old mine, only some of the pillars and stumps remaining and these will soon be all removed.

J. C. WATSON, *Supt.*

FREELAND TIBBETS, *Mine Foreman.*

MASTELLER COAL CO.

HAMPSHIRE, W. VA.

General Offices, Keyser, W. Va.

No. 441. *Hampshire No. 2, or Pinnacle Mine*.—This is a new drift mine

opened out in the Bakertown seam on the double entry system. The coal was found to be in a good state of purity and of more than usual height at this mine and a large force of men for a mine of this character (the coal only averaging about 26 inches) are employed here.

Ventilation by fan, was found to be good. Roof, timbering and drainage fairly good. Legal requirements seem to be reasonably well met at this mine.

MASTELLER COAL CO.

HAMPSHIRE, W. VA.

General Offices, Keyser, W. Va.

No. 441. *Hampshire No. 3, or Pinnacle Mine.*—This is another new mine opened out still farther around the mountain than the other mine known as the pinnacle. We have not yet inspected this new mine but we are informed that conditions are the same as at the first mine located on what is known as pinnacle mountain.

J. C. WATSON, *Supt.*

FREELAND TIBBETS, *Mine Foreman.*

MASTELLER COAL CO.

HAMPSHIRE, W. VA.

General Offices, Keyser, W. Va.

No. 442. *Hampshire Six Foot Mine.*—This is a rather new mine that was opened with the intention to drive around a fault found in an old mine that had been opened years before by the Davis Coal & Coke Co. It was thought that by intersecting with this mine that they could get beyond an extensive sand rock fault, but in this they failed and my impression is that this mine will before long have to be abandoned.

Ventilation by furnace has always been found sufficient for the number of men employed.

J. C. WATSON, *Supt.*

FREELAND TIBBETS, *Mine Foreman.*

MASTELLER COAL CO.

NEW CREEK MINE.

General Offices, Keyser, W. Va.

No. 443. *New Creek Mine.*—This is a drift mine operating the Kittanning seam on the double entry system. Many improvements have been made on this mine in the last year and when last inspected a considerable force of men were employed there. A better set of rules have been adopted for mining and preparing the coal.

Ventilation and timbering was good. Drainage had been greatly improved. Roof conditions were bad in places but was being carefully looked after.

Legal requirements were being well met in other respects.

J. C. WATSON, *Supt.*

FREELAND & ROBERT TIBBETS, *Mine Fore.*

DAVIS COAL & COKE CO.

OAKMONT, W. VA.

No. 444. *Kittanning No. 14 Mine.*—These are two drift mines operating the Freeport seam on the panel system.

Ventilation, timbering and drainage are good and in all other respects this mine has been found to be in good condition on date of every inspection while the present mine foreman has been in charge.

The mine would be dry in some places if not looked after but the management has installed a boiler for the purpose of introducing live steam into the workings and in addition to this, water is hauled in barrels and thrown on any part of the workings where the steam is not sufficient to maintain what moisture is thought necessary.

LEE OTT, *Gen. Supt.*

B. S. COLEMAN, *Mine Foreman.*

H. H. HARRISON, *Supt.*

DENMAN COAL CO.

EMORYVILLE, W. VA.

General Offices, Bloomington, Md.

No. 445. *Black Diamond Mine.*—This is a drift mine belonging to the Denman Coal Co., but now under lease to Patterson and Cross. Developments are in the Freeport seam, the mine being laid off on the double entry system. Ventilation by furnace has always been found sufficient for the number of men employed at time of inspection. Roof conditions are usually good. Drainage and timbering fairly good.

We had recommended a fan at this mine and we are informed that if the coal holds out good that a new opening will be made and a different system of ventilation established.

J. C. PATTERSON, *Gen. Mgr.*

EDD CROSS, *Mine Foreman.*

HOWARD CROSS, *Supt.*

DAVIS COAL & COKE CO.

ELKGARDEN, W. VA.

No. 446. *Elkgarden No. 9 Mine.*—This is a collection of drift openings around the crop line that are taking out the coal left in when the No. six mine was operating many years ago. A considerable number of men find employment and much coal is recovered as this seam is here found about twelve feet thick and of the very finest quality of coal.

Roof bad. Timbering and drainage as good as could be expected in working of this kind.

LEE OTT, *Gen. Supt.*

ELMER SHEETS, *Mine Foreman.*

H. H. HARRISON, *Supt.*

DAVIS COAL & COKE CO.

ELKGARDEN, W. VA.

General Offices, Thomas, W. Va.

No. 447. *Elkgarden No. 5 Mine.*—This is a drift mine opened in the outcrop of the Big Vein. This coal has a height of about 11 to 12 feet on an average and almost entirely clean coal.

This opening is made where the old No. 5 mine was formerly located and a considerable amount of coal can be recovered by this opening. About thirty miners find employment here.

LEE OTT, *Gen. Supt.*

ELMER SHEETS, *Mine Foreman.*

H. H. HARRISON, *Supt.*

DAVIS COAL & COKE COMPANY.

ELKGARDEN, W. VA.

General Offices, Thomas W. Va.

No. 447. *Elkgarden No. 4 Mine.* This is another drift mine opened out for the recovery of the crop left in the old No. 4 mine was in operation many years ago. Quite a large amount of this coal will be recovered, yet we do not think quite as much as will be gained at the No. 5, as the area to be recovered seems larger, but in all other respects conditions are very similar.

Although the recovery of this coal is a very dangerous work on account of the bad roof, always present, yet few men are ever injured as the company will only permit as workmen, the oldest and best experienced men in the field. This seems to show that our heavy accident list in some parts of the state is due in part at least to the employment as miners of men that have not had sufficient experience to properly protect themselves.

LEE OTT, *Gen. Supt.*ELMER SHEETS, *Mine Foreman.*H. H. HARRISON, *Supt.**DAVIS COAL & COKE CO.*

ELKGARDEN, W. VA.

General Offices, Thomas, W. Va.

No. 448. *New No. 10.* These were drift openings made into the coal known locally as the gas, a seam directly above the Pittsburg and for a time much coal was mined from this seam. At present but little if any is being mined, as we think these openings must be almost if not entirely worked out. This coal was of an average height of about six foot and of excellent quality but the supply was very limited and did not last long as the mines were operated on three shifts of eight hours each.

LEE OTT, *General Superintendent.*H. H. HARRISON, *Superintendent.*JOHN McNALLY, *Mine Foreman.**DAVIS COAL & COKE COMPANY.*

ELKGARDEN, W. VA.

General Offices, Thomas W. Va.

No. 449. *Ott No. BJ Mine.* This is a drift mine operating the Freeport Seam on the double entry system.

This is the mine that was visited by an explosion that wrecked the mine and 23 men in April 1911.

During the year just past several improvements have been made at the mine among which may be mentioned a gasoline motor, with which to haul the coal from the lay-off to the mine tippie. This machine is used on the return current of the mine only and there are no miners working where they would get the fumes from the use of gasoline as a power and we are informed that this machine is giving very good results.

Ventilation good. Timbering, roof and drainage reasonably good, the mine is closely watched for explosive gas and any coal dust present either hauled out of the mine or carefully watered down.

LEE OTT, *Gen. Supt.*JOHN KINNEY, *Mine Foreman.*H. H. HARRISON, *Supt.*JOHN KLIGROW, *Fire Boss.*

DAVIS COAL & COKE COMPANY.

BERYL, W. VA.

General Offices, Thomas W. Va.

No. 450. *Montgomery Run No. 19 Mine.* This is a drift mine opened out in the lower Kittanning Seam on the double entry system.

Electric Motors and an electric hoist are used in getting the coal to the tippie.

Ventilation, which is by steam fan, has always been found sufficient. Roof timbering good and drainage very good.

A good bit of dust is made in this mine both at the working faces and along the haulways as the coal is of a very frail character and pulverizes easily. This dust is kept in subjection by loading out and by the introduction of both live and exhaust seam from the fan engine into the intake air-current of the mine night and day. This serves to keep the dust moist all the time and is a system that can be copied with profits by the management of dry and dusty mines wherever found.

LEE OTT, *Gen. Supt.*J. A. TIBBETTS, *and*O. TIBBETTS, *Supt.*JAMES COCHRAN, *Mine Foreman.*

DAVIS COAL & COKE COMPANY.

BERYL, W. VA.

General Offices, Thomas W. Va.

No. 451. *Mine No. 51.* This is a drift mine developments being in the Bakertown Seam the mine being opened out on the double entry system. A separate split of air is provided for in nearly every heading in the mine and for the light of coal operated (it averages about 26 inches) we believe this to be a model little mine of its kind. About seventy men are employed here.

LEE OTT, *Gen. Supt.*J. A. TIBBETTS, *and*O. TIBBETTS, *Supt.*JAMES COCHRAN, *Mine Foreman.*

DAVIS COAL & COKE COMPANY.

BERYL, W. VA.

General Offices, Thomas W. Va.

No. 452. *Mine No. 50.* This is another drift mine opened out in the Bakertown seam on the opposite hill from the No. 51. Conditions as may be supposed are in most respects just the same, except that not quite so many men are employed in this mine as the other, and it does not have the same system of ventilation, the 51 it having an electric fan and at the 50 a steam fan is in use. This is an advantage as the mine is dry in some places and the exhaust from the fan engine is turned into the intake airway of the mine to help keep the mine moist.

LEE OTT, *Gen. Supt.*J. A. TIBBETTS, *and*O. TIBBETTS, *Supt.*JAMES COCHRAN, *Mine Foreman.*

In addition to the Mine reported we have a number of mines omitted from the report as we think it extremely unlikely that they will operate soon. In Mineral County, we have:

Gleason No. 1.

Harris Mine No. 1.

Willis Mine No. 1.
Kittanning No. 16.
Kittanning No. 15.
Wabash No. 9, worked out.
Shaw Big Vein, worked out.

Again in addition to this we have eight sand mines in Morgan County, as follows:

Pittsburg Mine.
Speer mine.
West Virginia, No. 1-2.
Berkley Springs Mine.
Beckel & Hurry.
Millard Mine.
Hancock Mine.
Berkley mine No. 2.

In Randolph county we have two mines one is the Silica Sand Company's mine, Pickens, Randolph County, and another new opening near Newlan, W. Va., the Company operating the plant being unknown to us.

The five new mines in Grant County that were reported last year as not being in operation are still in the same condition and we have no information as to when the railroad will be built or them operated.

FIFTH DISTRICT.

GENERAL SUMMARY FOR THE FIFTH MINING DISTRICT FOR
THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYEES							Production of			
			Inside.				Outside.			Coal.	Coke.		
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,000 lbs.
Braxton.....	4	2	152	20	6	36	214	27	.....	27	241	203,430	
Clay.....	3	1	8	102	22	27	159	30	.....	30	189	181,963	
Gilmer.....	3	1	14	40	12	11	77	16	.....	16	93	57,641	
Fayette.....	14	4	273	1,055	140	572	2,040	296	258	554	2,594	1,665,079	228,291
(Part)													
Kanawha.....	28	3	291	1,182	203	434	2,110	253	.....	253	2,363	1,719,206	
(Part)													
Mason.....	3	1	10	145	20	42	217	28	.....	28	245	139,377	
Putnam.....	3	3	678			171	849	89	.....	89	938	506,470	
Brooke.....	6	5	62	460	78	110	710	83	.....	83	793	680,192	
Marshall.....	7	2	51	432	58	130	671	114	.....	114	785	664,393	
Ohio.....	5	2	15	237	36	83	371	37	.....	37	408	374,595	
Total.....	76	24	1,554	3,673	575	1,616	7,418	973	258	1,231	8,649	6,182,346	228,291

Office of Fifth District Mine Inspector,

Clifton, W. Va., September 30, 1912.

HON, JOHN LAING,

Chief of Department of Mines,

Charleston, West Virginia.

Dear Sir:—

I herewith respectfully submit to you my Annual Report as Inspector of the Fifth Mining District of West Virginia, for the year ending June 30, 1912.

I am pleased to report that I have received the hearty co-operation of the operators, mine officials and miners during the past year, and there seems to be a well defined effort on the part of operators, miners and mine officials to enforce a more rigid method of discipline in the operation and development of the mines, more especially as to the safety and sanitary condition of the mines. In my judgment this is largely due to the fact that the mine foremen have been required to pass a practical examination, which has proved to be very beneficial to the operators and miners alike.

I am glad to say that in the discharge of my duties I have received courteous

treatment from mine officials and miners, and I desire to extend to you my thanks for the advice and assistance that you have given me at all times.

Respectfully yours,

EARL A. HENRY,

Mine Inspector of the Fifth District.

FIFTH DISTRICT.

New Mines.

McThe Coal Company, Gilmer County.

Cannelton No. 2 South, Fayette County.

Mines Idle During the Year.

LaBelle Drift, located at Wheeling, Ohio County.

Dixie Mine, located at Mason, Mason County.

Camden Mine, located at Spilman, Mason County.

Graham Mine, located at Bream, Kanawha County.

Quincy Mine No. 1, located at Quincy, Kanawha County.

Cedar Run Mines No. 1 and 2, located at Shrader, Kanawha County.

Sunday Creek Mine No. 108, located at Mammoth, Kanawha County.

Sunday Creek Mine No. 109, located at Mammoth, Kanawha County.

Boyd Mine, located at Cedar Grove, Kanawha County.

Alpha Mine, located at Plymouth, Putnam County.

Rex No. 1 Mine, located east of Wellsburg, in Brooks County.

Mines Abandoned.

Manchester Mine, located at Wheeling, Ohio County.

Linden Mine No. 2, located at Hartford, Mason County.

Black Betsey No. 1, located at Black Betsey, Putnam County.

California Mine, located at Plymouth, Putnam County.

Kanawha Gas Mine No. 2, located at Smithers, Fayette County.

Changes in Names of Companies.

Lewis Findley Coal Company succeeded by West Virginia and Pittsburg Coal Company.

LaBelle Coal Company succeeded by West Virginia and Pittsburg Coal Company.

Virginia & Ohio Red Ash Coal Company succeeded by the Elliott-Splint Coal Company.

BROOKE COUNTY.

WEST VIRGINIA PITTSBURG COAL COMPANY.

P. O. COLLIER, W. VA.

General Office, Frick Building, Pittsburg, Pa.

No. 501. *Locust Grove Mine No. 1.—Drift.* Located two miles south of Collier Station on the P. C. C. & St. L. Railroad, operating the Pittsburg No. 8 Seam of Coal, which has an average thickness of five feet. The roof is slate and in some sections is of a dangerous character, especially where the upper slate varies in thickness from six to ten inches which must be taken down or properly timbered to insure safety to the miners. In some sections of the mine there is a considerable quantity of water to contend with; drainage fairly good. Ventilation is produced by two fans and is generally good. The coal

is principally mined by electric chain machines with mule and electric haulage. This is a coaling station for the P. C. C. & St. L. Railroad and a large amount of the production is used for coaling the engines. The mining laws are generally observed. This plant was formerly operated by the Lewis-Findley Company but was recently changed to the West Virginia Pittsburg Coal Company.

H. S. LEWIS, *Gen. Mgr.*

E. M. FINDLEY, *Gen. Supt.*

NUTE RUCKMAN, *Mine Foreman.*

WEST VIRGINIA PITTSBURG COAL COMPANY.

P. O. WELLSBURG, W. VA.

General Office, Frick Building, Pittsburg, Pa.

No. 502. *No. 3 Mine.—Drift.* Located three miles north of Wellsburg, on the P. C. C. & St. L. Railroad, operating in the Pittsburg No. 8 Seam of coal which has a thickness of five feet, with a slate roof which in some sections is of a dangerous character, especially where the draw slate varies in thickness from six to eighteen inches, which has to be taken down and properly timbered to insure safety. Ventilation is produced by means of a fan which furnishes sufficient air to give proper system of ventilation. In some sections there is considerable water to contend with. Drainage generally good. Coal is mined with electric machines and hauled by electric motors. Mining laws are generally complied with.

H. S. LEWIS, *Gen. Mgr.*

E. M. FINDLEY, *Supt.*

JOHN ROXBY *Mine Foreman.*

WEST VIRGINIA PITTSBURG COAL COMPANY.

P. O. WELLSBURG, W. VA.

General Office, Frick Building, Pittsburg, Pa.

No. 503. *Mine No. 4.—Drift.* Located at Wellsburg, on the P. C. C. & St. L. Railroad, operating the Pittsburg No. 8 Seam of coal which has a thickness of five feet. The roof is slate and in some sections is bad, especially where there is a draw slate, which must be taken down or carefully timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. In some sections there is considerable quantity of water to contend with. Drainage generally good. Ventilation is produced by a fan with good results. The coal is mined by electric chain machines with mule and electric haulage, electric power being furnished by the electric Street Railway Company five hundred voltage. The wires are properly protected, making it generally safe for the employees. Mining laws are generally complied with. This mine was formerly operated by the La Belle Coal Company.

H. S. LEWIS, *Gen. Mgr.*

E. M. FINDLEY, *Gen. Supt.*

WILLIAM D. GULLEY, *Mine Foreman.*

BEECH BOTTOM COAL COMPANY.

P. O. BEECH BOTTOM, W. VA.

General Office, Wellsburg, W. Va.

No. 504. *Beech Bottom Mine No. 1.—Drift.* Located six miles south of Wellsburg, on the P. C. C. & St. L. Railroad, operating the Pittsburg No. 8 Seam of Coal which has a thickness of five feet, with a slate roof which in some sections is of a dangerous character, the draw slate varying in thickness

from eight to fifteen inches which has to be taken down or properly timbered to insure safety. In some sections of the mine there is considerable water to contend with. Drainage fairly good. Ventilation is produced by means of two five-foot fans which furnish sufficient air to give a proper system of ventilation when properly distributed to the working places. Coal is principally mined by electric chain machines with mule and electric haulage. Considerable improvements have been made at this mine during the past year, and the mine law is generally complied with.

ELMER HOUGH, *Gen. Mgr. & Supt.*

J. E. WALLACE, *Mine Foreman.*

LA BELLE IRON WORKS.

P. O. STEUBENVILLE, OHIO.

General Office, Steubenville, Ohio.

No. 505. *La Belle Shaft.* Located at Steubenville, Ohio. This shaft is one hundred and ninety-eight feet deep and the developments extend under the Ohio River into Brooke County West Virginia, operating the Upper Freeport Seam of coal which has a thickness of three and a half feet with a slate and sand stone roof which is generally good. In some sections of the mine they have a large quantity of water to contend with. Drainage good. Ventilation is produced by a sixteen foot fan which furnishes sufficient air when properly distributed to the working places. In some sections of the mine explosive gas is liberated in small quantities, generally in slight traces at the face of a few of the headings. Coal is mined by electric chain machines and hauled exclusively by electric motors. During the year a shaft was sunk on the West Virginia side and equipped with stairs, making an available outlet for the miners in case of accident to the mine shaft located on the Ohio side, which greatly improved the system of ventilation.

W. D. CRAWFORD, *Gen. Mgr.*

ALLEN BAILLIE, *Mine Foreman.*

R. W. McCASLAND, *Supt.*

GEORGE HOLLIDAY, *Mine Foreman.*

WILLIAM YOUNG, *Fire Boss.*

ROBERT BROWN, *Fire Boss.*

BRAXTON COUNTY.

DAVIS COLLIERY COMPANY.

P. O. BOWER, W. VA.

General Office, Elkins, W. Va.

No. 506. *Colliery No. 7.—Drift.* Located at Bower on the Coal & Coke Railroad, operating the Pittsburg Seam of coal which varies in thickness from six and a half to eight feet with a slate roof which is bad in some sections and requires careful attention and to be well timbered to insure safety. In some sections of the mine there is some water to contend with. Drainage generally good. During the year a fan was installed at this mine which gives a good system of ventilation. Coal is principally mined by pick with mule and electric motor haulage. This mine is operated in connection with Colliery No. 10, the products of both mines being loaded from the same tippie.

F. F. HEALEY, *Gen. Mgr.*

CLAUD STARR, *Mine Foreman.*

LAWSON BLENKINSOPP, *Supt.*

DAVIS COLLIERY COMPANY.

P. O. BOWER, W. VA.

General Office, Elkins, W. Va.

No. 506. *Colliery No. 10.—Drift.* Located at Bower on the Coal & Coke Railroad, operating the Pittsburg Seam of coal which varies in thickness from six to eight feet with a slate roof which in some sections is of a dangerous character and must be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are well timbered. Ventilation is produced by a fan which furnishes sufficient air when properly distributed. There is but little water to contend with; drainage generally good. Coal is mined by pick and electric mine machines. In some sections where the roof is especially bad the mine machines cannot be successfully operated and where conditions of this kind exist the coal is mined by pick. Considerable improvement has been made at this mine during the past year. An electric plant has been installed with electric mine machines and electric motors on the main haul-way. The mining law is generally complied with.

J. F. HEALY, *General Mgr.*THOMAS DAVIS, *Mine Foreman.*LAWSON BLENKINSOPP, *Supt.*

DAVIS COLLIERY COMPANY.

P. O. COPEN, W. VA.

General Office, Elkins, W. Va.

No. 507. *Colliery No. 11.—Drift.* Located at Copen on the main line of the Coal & Coke Railroad, operating the Pittsburg Seam of Coal which varies in thickness from five to eight feet with a slate roof which is bad in some sections and requires careful attention and to be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. There is but little water to contend with. Drainage good. Ventilation is produced by fan which furnishes sufficient air to ventilate the present development. The coal is all mined by pick with horse and mule haulage. The mining law is generally complied with.

J. F. HEALY, *Gen. Mgr.*WORTHY RIGGS, *Mine Foreman.*LAWSON BLENKINSOPP, *Supt.*

BRAXTON COAL & COKE COMPANY.

P. O. BRAXTON, W. VA.

No. 508. *Braxton Mine.—Drift.* Located at Cutlip on the main line of the Coal & Coke Railroad, operating the Pittsburg Seam of Coal which has an average thickness of six and a half feet. The roof is slate and in some sections it is bad and requires to be well timbered to insure safety. Ventilation is by means of a temporary furnace which furnishes sufficient air for the number of persons employed, as this is a very small development employing only a few persons. Coal is mined by pick with mule haulage.

CHARLES S. BOYER, *Supt. & Mine Foreman.*

COPEN CREEK COAL COMPANY.

P. O. GILMER, W. VA.

No. 509. *Fanwith Mine.—Drift.* Located between Copen and Bower on the main line of the Coal & Coke Railroad, operating the Pittsburg Seam of coal

which varies in thickness from six to seven feet. The roof is slate and in some sections it is bad requiring careful attention and a proper system of timbering careful attention and a proper system of timbering to insure safety. There is but little water to contend with. Ventilation is produced by natural causes. This is a small mine on a very cheap scale, employing but few persons. The coal is mined by punching machines, operated by compressed air.

H. S. HUBER, *Supt.* & *Mine Foreman*.

CLAY COUNTY.

THE ELLIOT SPLINT COAL COMPANY.

P. O. CLAY, W. VA.

No. 510. *York Mine No. 1.—Drift.* Located half a mile west of Clay on the Coal & Coke Railroad, operating the Coalburg Seam of coal which varies in thickness from six to seven feet including the slate parting which averages about twenty-four inches. The roof is slate and in some sections is bad and requires to be well timbered to secure safety. There is but little water to contend with; drainage good. Coal is mined by electric mine machines with mule and motor haulages. Ventilation is produced by a fan which furnishes sufficient air that is properly distributed throughout the mine. This mine was formerly known as the Pisgah mine operated by the Virginia and Ohio Red Ash Coal Company. During the latter part of the year the property was acquired by the above named company who have spent considerable money in improving the property; having installed an electric plant, constructed a new tippie, built several tenement houses and store house. They have also installed a fan and additional mine machines. The physical condition of the mine has been materially changed as the track has been re-laid with new steel and concrete stoppings constructed throughout the mines. The mining law are well observed.

H. P. ELLIOTT, *General Manager*.

HARRY CHARLES, *Mine Foreman*.

H. E. TAYLOR, *Supt.*

CLAY COAL COMPANY.

P. O. BARREN CREEK, W. VA.

General Office, Toledo, Ohio.

No. 511. *Bradley White Ash Mine.—Drift* Located at Barren Creek on the Coal & Coke Railroad operating the No. 5 Seam of coal which has a thickness of four feet with slate roof, which is good with the exception of some sections where there is a draw slate varying in thickness from four to eight inches. In some sections of the mine there is considerable quantity of water to contend with. Drainage fairly good. Ventilation is produced by a fan which furnishes sufficient air for the number of persons employed when properly distributed to the working places. Coal is mined by pick with mule haulage. Mining laws are generally observed.

S. T. WALBOLT, *Gen. Mgr.*

GEO. W. KILBURN, *Mine Foreman*.

WILLIAM E. DAVIS, *Supt.*

ELK MANOR COAL COMPANY.

P. O. DORFEE, W. VA.

No. 512. *Dorfee Mine.—Drift.* Located at Dorfee on the main line of the

Coal & Coke Railroad operating the Winifrede Seam of coal which varies in thickness from three and a half to four and a half feet with a slate roof which is good with few exceptions. There is but little water to contend with. Drainage generally good. Ventilation is produced by a fan which furnishes sufficient air when properly distributed to the working places. The coal is mined by electric chain machines with mule and electric haulage. The mining law is generally observed.

L. C. BEIRNE, *Gen. Mgr. and Supt.*

L. E. WOOD, *Mine Foreman.*

QUEEN SHOALS COAL COMPANY.

P. O. QUEEN SHOALS, W. VA.

No. 513. *Burnswell Mine.—Drift.* Located near Queen Shoals on the Coal & Coke Railroad, operating the No. 5 Seam of Coal which varies in thickness from three to four feet with a slate and sandstone roof, which is generally good. The ventilation is produced by a furnace which furnishes sufficient air for the number of persons employed, as this is a very small development. The mining laws are well observed.

W. M. PRINCE, *Gen. Mgr.*

CHARLES LEFTWICH, *Mine Foreman.*

W. R. MORRIS, *Supt.*

ELK RIVER COAL AND LUMBER COMPANY.

P. O. WIDEN, W. VA.

No. 514. *Rich Run Mine.—Drifts.* Located at Widen on the Buffalo Creek and Gauley Railroad which connects with the Coal and Coke at Dunderberg, operating the No. 5 Seam of coal which has a thickness of six feet with a slate roof which is generally good. There are eight sets of drifts, the products of all being loaded from the same tippie. Ventilation is produced by fans and temporary furnaces. The drifts that are ventilated by fans the ventilation is good. Arrangements are being made to connect the drifts that at the present time are being ventilated by furnaces, after which fans will be installed, which will greatly improve the system of ventilation. There is but little water to contend with. Drainage good. The plans of development are such that in the near future this will be a large producer. The coal is mined by electric mine machines with mule and electric haulage. The mining laws are generally observed.

J. C. BRADLEY, *Gen. Mgr.*

WILLIAM WAGNER, *Mine Foreman.*

R. T. PRICE, *Supt.*

MARSHALL COUNTY.

HITCHMAN COAL & COKE COMPANY.

P. O. WHEELING, W. VA.

No. 515. *Hitchman Mine.* This is a slope located at Hitchman near Benwood on the main line of the B. & O. Railroad operating the Pittsburg No. 8 Seam of Coal which varies in thickness from four feet ten inches to five and a half feet, with a slate roof which in some sections is of a dangerous character, especially where the draw slate varies in thickness from six to fifteen inches, which must be taken down or well timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly tim-

bered. The mine officials give close attention to the timbering of the working places and it is very seldom a serious or fatal accident occurs in this mine. The ventilation is produced by a small fan which gives a very fair system of ventilation. As this is a large mine and being rapidly developed it will be but a short time until it will require a much better system of ventilation to meet with the requirements of the mine law, and for this reason the management are making arrangements to sink a shaft near the advanced heading at which point a fan that will furnish a large quantity of air will be installed. There is but little water to contend with in this mine. Drainage generally good. Nearly all of the advanced headings liberate explosive gas in small quantities, but competent fire bosses are employed who give close attention and careful examination of all sections that are known to liberate explosive gas. Coal is mined by electric mine machines with mule and electric haulage. The general manager and superintendent take great interest in the safety of their employees and are ready at all times to cooperate with the Mine Department in all matters that will insure safety of their men.

W. H. KOCH, *Gen. Mgr.*

E. C. PICKETT, *Supt.*

ISAAC MURRAY, *Mine Foreman.*

CHARLES ESIG, *Mine Foreman.*

GEORGE BURNER, *Fire Boss.*

MOUND COAL COMPANY.

P. O. MOUNDSVILLE, W. VA.

General Office, Wheeling, W. Va.

No. 516. *Mound Shaft.* Located at Moundsville, operating the Pittsburg Seam of coal which has a thickness of five feet with a slate roof which has to be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. Ventilation is produced by a sixteen foot fan, which does not furnish sufficient air to meet the requirements of the mine law. The deficiency is principally due to the conditions of the intake airway which is obstructed by falls of slate. In some sections of the mine explosive gas is liberated in small quantities. There is a large area of old workings in this mine which has been sealed off from the main workings and a bore hole put down from the surface for the purpose of an outlet for any accumulations of explosive gas in the worked out sections. There is but little water to contend with; drainage good. Coal is mined by electric mine machines with mule and electric motor haulage. Preparations were being made to remove the slate obstructions from the intake air way which when completed will increase the area and improve the system of ventilation. This is an old mine which has been neglected in the past and will require considerable work and expense to place the mine in proper condition as to ventilation. The mine officials show a willingness to cooperate with the Mine Department.

J. C. MCKINNEY, *Gen. Mgr.*

WILLIAM YOUNG, *Supt.*

SETH STEPHENS, *Mine Foreman.*

G. M. STEPHENS, *Fire Boss.*

BEN FRANKLIN COAL COMPANY.

P. O. MOUNDSVILLE, W. VA.

The General Office, Freeport, Pa.

No. 517. *Panama Shaft.* Located one-half mile south of Moundsville on the B. & O. Railroad, operating the Pittsburg Seam of Coal which has a thickness

of five and one-half feet, with a slate roof which in some sections is of a dangerous character and has to be well timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. There is but little water to contend with; drainage good. Explosive gas is liberated in practically all of the headings. Ventilation is produced by a twenty-foot fan which furnishes sufficient air if properly distributed to the working places. Coal is mined by electric chain machines and hauled by electric motors.

M. M. McQUADE, *Gen. Mgr. & Supt.*

C. E. McCABE, *Mine Foreman.*

W. G. HUPP, *Fire Boss.*

PARR'S RUN COAL COMPANY.

P. O. MOUNDSVILLE, W. VA.

No. 518. *Parr's Run Shaft.* Located on Parr's Run one mile east of Moundsville. Shaft four hundred and ten feet in depth, operating the Pittsburg Seam of coal which has a thickness of five and one-half feet with a slate roof which in some sections is bad and of a dangerous character and has to be given close attention and must be properly timbered to insure safety to the miners, especially where the draw slate varies in thickness from six to twenty-four inches. There is but little water to contend with; drainage good. Ventilation is produced by a fan which furnishes sufficient air that is properly distributed to the working places as required by law. Explosive gas is liberated in small quantities. During the year an additional shaft was sunk which will be used for ventilation purposes and traveling way for the employees in case of accident to the main shafts. Coal is mined by electric mine machines with mules and electric haulage.

H. W. HUNTER, *Gen. Mgr.*

FRANK CLEGG, *Mine Foreman and*

J. W. BERRY, *Supt.*

Fire Boss.

GLENDALE COAL COMPANY.

P. O. GLENDALE, W. VA.

No. 519. *Glendale Shaft.* Located at Glendale on the B. & O. Railroad, operating the Pittsburg Seam of coal which has a thickness of five feet, with a slate roof and in some sections is bad, especially where there is a draw slate varying in thickness from eight to eighteen inches which has to be taken down or properly timbered to insure safety to the miners. Ventilation is produced by a twelve-foot fan but owing to the air-course being obstructed by falls of slate the air is not properly distributed to the working places as required by the mine law. A force of men are employed in removing the slate from the air-course, which will improve the system of ventilation when the air-way is placed in proper condition. There is considerable water to contend with; drainage generally good. Coal is mined by electric mine machines with mule and electric motor haulage. With the exception of the deficiency in the system of ventilation the mining laws are well observed.

W. H. KUCH, *Gen. Mgr.*

MICHAEL FREEMAN, *Mine Foreman.*

E. C. PICKETT, *Supt.*

WHEELING STEEL & IRON COMPANY.

P. O. WHEELING, W. VA.

No. 520. *Benwood Mine.—Drift.* Located at Benwood on the B. & O. Railroad operating the Pittsburg Seam of coal which has a thickness of five and a half feet with a slate roof which in some section is bad, especially where there is a draw slate which varies in thickness from six to eighteen inches, which has to be taken down or properly timbered to insure safety. The miners are well supplied with timber and as a rule working places are properly timbered, as the mine foreman give close attention to the timbering as well as to all other conditions that might be considered dangerous to the employees. Ventilation is produced by a twelve-foot fan which furnishes sufficient air for for a proper system of ventilation and is well distributed. Drainage good. With the exception of some pillar work coal is mined with electric chain machines with electric motor haulage. The mining law is well observed as the mine officials cooperate with the Mine Department.

CHALKEY DAWSON, *Gen. Mgr. & Supt.*R. E. ROUSH, *Mine Foreman.**KUNTZ BROTHERS & MILLER.*

No. 521. *Bogg's Run Mine.—Drift.* Located at the north end of Benwood, operating the Pittsburg Seam of coal which has a thickness of five and a half feet, with a slate roof that must be well timbered to insure safety of the miners. Ventilation is produced by a twelve-foot fan which furnishes sufficient air for the number of persons employed, which vary in number from six to ten miners, as the work consists of drawing pillars. The product of the mine is consumed by local trade and delivered by teams.

PHILIP KUNTZ, JR., *Supt.*EUGENE MILLER, *Mine Foreman.**OHIO COUNTY.**PETER STORCH & SONS.*

P. O. EDGINGTON LANE VIA WHEELING, W. VA.

No. 522. *Storch Mine.—Drift.* Located at Edgington Lane three miles east of Wheeling, operating the Pittsburg No. 8 Seam of Coal which has a thickness of five feet, with a slate roof that must be properly timbered to insure safety; drainage good. Ventilation is produced by means of a furnace which gives poor results. The mine is operated on a cheap scale having been in operation for the past forty-seven years. During the summer months from one to two miners are employed; in the winter season six to ten men. The entire product of this mine is consumed by local trade. The coal is mined by picks with mule haulage.

GEORGE STORCH, *Supt.*Jl JOHN STORCH, *Mine Foreman.**ELM GROVE COAL COMPANY.*

P. O. ELM GROVE, W. VA.

General Office, Elm Grove, W. Va.

No. 523. *Elm Grove Mine.—Shaft.* Located at Elm Grove on the B. & O. Railroad, operating the Pittsburg No. 8 Seam of Coal which has a thickness of five feet. The roof is slate and in some sections is bad, and must be well timbered to insure safety to the miners. The mine is practically dry. Drainage good. Ventilation is produced by a ten foot fan but the system of ventilation

fails to meet the requirements of the law, this being principally due to the airway being obstructed by heavy falls of slate. Coal is mined by electric chain machines with mule and electric motor haulage. Electric power is furnished by the Electric Street Railway Company. The voltage is five hundred, and in some instances has proved fatal to employees who came in contact with the electric wires. During the year this mine was connected with the Creighton mine, which will be used as a second opening for the men to travel in case of an accident to the main shaft.

J. B. CHAMBERS, *Gen. Mgr. & Supt.*

ALBERT EKEY, *Mine Foreman.*

J. S. CREIGHTON.

P. O. ELM GROVE, W. VA., R. F. D. No 1.

No. 524. *Creighton Mine.—Slope.* Located one mile east of Elm Grove operating in the Pittsburg No. 8 Seam of coal, which has a thickness of five feet, with slate roof that has to be properly timbered to insure safety. There is but little water to contend with; drainage good. Ventilation is produced by a fan located at the Elm Grove Shaft, these two mines connected by a heading which is used for the intake air way and traveling road for the employees at the Elm Grove mine. This is a very small development, employing from four to ten persons. The entire product of the mine is consumed by local trade delivered by teams. Coal is mined by electric mine machine; power being furnished by the Electric Street Railway Company. *nl*

J. S. CREIGHTON, *Gen. Mgr. & Supt.*

FRANK BURDETTE, *Mine Foreman.*

WHITTAKER-GLESSNER COMPANY.

P. O. WHEELING, W. VA.

No. 525. *Carter Mine.—Drift.* Located at East Wheeling on the Wheeling and Lake Erie Railroad, operating the Pittsburg Seam of coal which has a thickness of four feet and ten inches. The roof is slate and must be properly timbered to insure safety. Ventilation is produced by a fan which furnishes sufficient air for the number of employees when properly distributed. Coal is mined by electric chain machines with mule and electric motor haulage. During the year a slope was put down on the extreme end of the property connecting with the main haulage way which made a great improvement in the system of drainage and ventilation. The mining law is generally complied with.

W. H. KASLEY, *Gen. Mgr. & Supt.*

W. E. MCGLONE, *Mine Foreman.*

RICHLAND COAL COMPANY.

P. O. WHEELING, W. VA.

No. 526. *Richland Mine.—Drift.* Located two miles north of Wheeling on the P. C. C. & St. L. Railroad, operating the Pittsburg No. 8 Seam of coal which has a thickness of five feet. The roof is slate and in some sections is of a dangerous character, especially where there is a draw slate that has to be taken down or the working places properly timbered to insure safety. There is but little water to contend with; drainage good. Ventilation is produced by two small fans, but the system of ventilation does not meet with the full requirements of the law, this being principally due to the air way being obstructed by falls of slate. A heading is being driven to the outcrop which when completed will greatly improve the system of ventilation. The coal is mined by

electric mine machines with mule and electric motor haulage. Electric power is furnished by the Wheeling Traction Company. With the exception of the deficiency in the ventilation the mining law is well observed.

J. C. MCKINLEY, *Gen. Mgr.*

E. S. WADE, *Mine Foreman.*

J. P. LEONARD, *Supt.*

MASON COUNTY.

HARTFORD COAL & MINING COMPANY.

P. O. HARTFORD, W. VA.

No. 527. *Hartford Mine.—Drift.* Located at Hartford on the B. & O. Railroad, operating the Pittsburg Seam of Coal which varies in thickness from four and a half to five feet, with slate and sandstone roof, which in some sections is of a dangerous character that has to be properly timbered to insure safety. In some sections of the mine there is considerable water to contend with. System of drainage is poor. Ventilation is produced by a ten-foot fan which gives very poor results. This being principally due to the large area over which the air has to travel, and the air-course being obstructed by slate and water. This mine is operated on a very cheap scale. It would require considerable expense to put this mine in a proper condition. The officials in charge claim that they have not sufficient funds at their command to make the necessary improvements.

GEORGE W. COYLE, *Supt.*

M. L. RIFFLE, *Mine Foreman.*

JACKSON COAL & MINING COMPANY.

P. O. HARTFORD, W. VA.

No. 528. *Jackson Furnace Mine.* This is a drift located at Hartford on the main line of the B. & O. Railroad, operating the Pittsburg Seam of coal, which has a thickness of four feet four inches with a slate roof which is generally good. Ventilation is produced by a ten-foot fan which furnishes sufficient air for the number of persons employed when properly distributed. In some sections of the mine there is a large quantity of water to contend with. The system of drainage is fair. Coal is mined by electric chain machines with mule and electric motor haulage. The mine laws are generally complied with.

E. A. SMITH, *Supt.*

EARL EWING, *Mine Foreman.*

HUTCHINSON COAL COMPANY.

P. O. MASON, W. VA.

General Office, Fairmont, W. Va.

No. 529. *Linden Mine No. 3.—Drift.* Located one mile east of Mason on B. & O. Railroad, operating the Pittsburg Seam of coal which has a thickness of four and one-half feet with a slate roof which in some sections is bad and has to be well timbered to insure safety. Ventilation is produced by a fan and is generally good. In some sections of the mine there is considerable water to contend with. Drainage good. Coal is mined by electric chain machine with mule and electric haulage. The mining law is well observed.

C. H. JENKINS, *Gen. Mgr.*

ROBERT KNIGHT, *Mine Foreman.*

E. P. McOLIVIN, *Supt.*

PUTNAM COUNTY.

PLYMOUTH COAL & MINING COMPANY.

P. O. PLYMOUTH, W. VA.

No. 530. *Plymouth Mine.—Drift.* Located at Plymouth on the K. & M. Railroad, operating the Pittsburg Seam of coal which has a thickness of five and one-half feet with a slate roof which in some sections is of a dangerous character and has to be well timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. Ventilation is produced by a fan and is generally good. There is but little water to contend with; drainage good. Coal is pick mined and conveyed by mule electric motor and rope haulage to the outside, from which point it is hauled by steam locomotive to the railroad and river tipples. The mining laws are generally observed.

W. C. MITCHELL, *Supt.*JOSEPH VIRGIN, *Mine Foreman.*

PLYMOUTH COAL & MINING COMPANY.

P. O. PLYMOUTH, W. VA.

No. 530. *Manila Mine.—Drift.* Located at Plymouth and operated in connection with the Plymouth Mine, the products of both of these mines being loaded from the same tipples. The Pittsburg Seam of Coal which has a thickness of five and a half feet is operated. The roof is slate and in some sections is dangerous character and has to be well timbered to insure safety. The miners are generally well supplied with timber and as a rule the working places are properly timbered. Ventilation is produced by a fan with good results. In some sections of the mine there is considerable water to contend with. Drainage good. The coal is pick mined with mule, electric motor and rope haulage. The mining law are well observed.

W. C. MITCHELL, *Supt.*JOSEPH VIRGIN, *Mine Foreman.*

THE OTTO MARMET COAL & MINING COMPANY.

P. O. RAYMOND CITY, W. VA.

No. 531. *Big Otto Mine No. 1.—Drift.* Located on Harmon's Creek five miles east of Raymond City, operating the Pittsburg Seam of coal which has a thickness of five and one-half feet, with a slate roof, which in some sections is of a dangerous character and has to be given close attention to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. There is but little water to contend with; drainage good. Ventilation is produced by a fan and is generally good. Coal is pick mined with mule and electric haulage. Mining laws are well observed.

EDWARD SCHNEBAUM, *Gen. Mgr. & Supt.*ANDREW UTT, *Mine Foreman.*

THE OTTO MARMET COAL & MINING COMPANY.

P. O. RAYMOND CITY, W. VA.

No. 531. *Big Otto Mine No. 3.* Located on Harmon's creek five miles east of Raymond City, operating the Pittsburg Seam of coal which has a thickness of five and one-half feet with a slate roof which in some sections is of a dangerous character that must be well timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered.

As the miners who work in the mines in Putnam County are principally all practical miners and thoroughly understand the necessity of a proper system of timbering to protect themselves from a roof of the character that exists throughout this section. There is but little water to contend with; drainage good. Ventilation is produced by a fan with good results. Coal is mined by pick and hauled by mule and electric motors to the mine tipples; from that point the coal is delivered to the river and railroad tipples by steam locomotives, the products of both of these mines being loaded from the same tipples. The mining laws are generally complied with.

EDWARD SCHOENBAUM, *Gen. Mgr. & Supt.*

ROBERT FIELDS, *Mine Foreman.*

BLACK BETSEY COAL & MINING COMPANY.

P. O. BLACK BETSEY, W. VA.

General Office, Providence, R. I.

No. 532. *Black Betsey Mine No. 2J—Drift.*—Located at Black Betsey on the Kanawha and Michigan Railroad, operating the Pittsburg seam of coal which has a thickness of five and one-half feet, the roof is slate and in some sections is of a dangerous character and has to be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. In some sections of the mine they have considerable surface water to contend with. Drainage good. Ventilation is produced by a fan which is generally good. Coal is all mined by pick, with mule and electric motor haulage. The mining laws are generally observed.

THOMAS W. WOODARD, *Gen. Mgr. & Supt.* CHARLES CAWLEY, *Mine Foreman.*

BLACK BETSEY COAL & MINING COMPANY.

P. O. BLACK BETSEY, W. VA.

General Office, Providence, R. I.

No. 532. *Black Betsey Mine No. 3.—Drift.*—Operated in connection with No. 2 mine, operating the Pittsburg Seam of coal which has a thickness of five and one-half feet with a slate roof which in some sections is of a dangerous character and must be properly timbered to insure safety. As a rule the miners are well supplied with timber, and the working places properly timbered. There is but little water to contend with; drainage good. Ventilation produced by a fan with good results. Coal is all pick mined with mule and electric motor hauling. The product of the No. 2 and 3 mines is loaded from the same tipples. During the past year considerable improvements have been made at these mines and the mining laws are generally complied with.

THOMAS WOODARD, *Gen. Mgr. & Supt.* CHARLES SANTROCK, *Mine Foreman.*

OAK FOREST COAL COMPANY.

P. O. WINFIELD, W. VA., R. F. D. No. 2.

No. —. *Oak Forest Mine.—Slope.*—Located at Oak Forest, on the south side of the Kanawha river, three miles south of Winfield, operating the Pittsburg seam of coal which varies in thickness from three and one half to four feet. The roof is slate and generally good, with the exception of a few places where clay veins are encountered which causes the roof to be faulty. There is but little water to contend with. Drainage good. Ventilation is produced by a fan which furnishes sufficient air to meet the full requirements of the

law. This mine is operated on a small scale and has only been in operation at irregular intervals during the past year. Coal is mined by electric machines and hauled by electric motors. The second opening is a shaft seventy feet in depth which is used as a return air course and equipped with a ladder which does not fully comply with the law, for a second opening shall be equipped with stairs or hoisting machinery. With the above exceptions the law is well observed.

D. L. THOMAS, *Gen. Mgr. & Mine Foreman.*

GILMER COUNTY.

MCCAA COAL COMPANY.

P. O. GILMER, W. VA.

No. 533. *McCaa Mine, No. 1.—Drift.*—Located at Gilmer on the Coal & Coke Railroad, operating the Pittsburg seam of coal which varies in thickness from six to eight feet. The roof is slate and of a character that must be properly timbered to insure safety. This is a new development and as yet no permanent system of ventilation or drainage has been installed. The machinery and necessary equipments for the construction of a new tippie and modern plant was on the ground and preparations were being made to make this a first class mine.

B. M. GREEN, *Supt. & Mine Foreman.*

KATHARINE COAL COMPANY.

No. 534. *Katharine Mine.—Drift.*—Located between Bower and Gilmer on the Coal and Coke Railroad. This is a new mine opened during the year, operating the Pittsburg Seam of coal which has a thickness of six and one-half feet. The roof is slate and in some sections is of a dangerous character, and must be well timbered to insure safety. There is but little water to contend with. Drainage good. Ventilation is by natural causes which furnishes sufficient air for the number of persons employed, as this is a small development as this is a small development only employing a few persons. Coal is mined by pick with mule haulage.

W. G. COLBURN, *Supt. & Mine Foreman.*

GILMER FUEL COMPANY.

P. O. GILMER, W. VA.

No. 535. *Gilmer Mine.—Drift.*—Located at Gilmer on the Coal & Coke Railroad, operating the Pittsburg seam of coal which varies in thickness from six to eight feet with a slate roof which in some sections is of a dangerous character and must be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are well timbered. There is but little water to contend with. Drainage generally good. Ventilation is produced by a fan which does not furnish sufficient air to give a proper system of ventilation, this being principally due to the fan being improperly installed, but a new heading has been driven to the outcrop and arrangements are being made to re-locate the fan which will improve the system of drainage to meet with the requirements of the mine law. The coal is principally mined by punching machine operated by compressed air with mule

haulage. When the improvements and the ventilation is completed the mine law will be well observed.

W. B. SIMMS, *Supt.*

W. H. MATHENA, *Mine Foreman.*

FAYETTE COUNTY.

BOOMER COAL & COKE COMPANY.

P. O. BOOMER, W. VA.

General Office, Cleveland, Ohio.

No. 536. *Boomer Mine No. 1.—Drift.*—Located near Boomer on a branch of the main line of the K. & M. Railroad, operating the No. 2 Gas Seam which has an average thickness of five feet with a slate roof which is generally good throughout the mine. There is but little water to contend with as the mine is practically dry. In some sections it was necessary to put in a pipe line to water the dry and dusty sections. Ventilation is produced by a fan with good results. The coal is principally mined by electric mine machines, only a few pick miners being employed in the sections where pillars are being drawn. Mule and electric haulage. This mine has not been in operation but very little during the past year. The mining laws are generally complied with.

MICHAEL GALLAGHER, *Gen. Mgr.*

JOHN PORTER, *Mine Foreman.*

T. H. HUDDY, *Supt.*

BOOMER COAL & COKE COMPANY.

P. O. BOOMER, W. VA.

General Office, Cleveland, Ohio.

No. 537. *Mine No. 2, North.—Drift.*—Located one mile east of Boomer on a branch of the K. & M. Railroad, operating the No. 1 Eagle seam which has an average thickness of five and a half feet, with a slate roof which in some sections is of a dangerous character and must be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are well timbered. There is but little water to contend with; drainage good. Some sections of the mine are especially dry and have to be regularly watered to allay the dust. Ventilation is produced by a fan which furnishes sufficient air when properly distributed to the working places. Considerable improvements have been made in the system of ventilation during the past year. The coal is mined by pick and electric mine machines. In some sections where the roof is bad machines cannot be successfully operated, making it necessary to have the coal mined by pick miners. Haulage by mule and electric motors. The mining laws are generally complied with.

MICHAEL GALLAGHER, *Gen. Mgr.*

JOHN HUDDY, *Mine Foreman.*

T. H. HUDDY, *Supt.*

BOOMER COAL & COKE COMPANY.

P. O. BOOMER, W. VA.

General Office, Cleveland, Ohio.

No. 537. *Mine No. 2, South.—Drift.*—Located one mile east of Boomer on a branch of the K. & M. Railroad, operating the No. 1 Eagle seam, which has an average thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character and must be well timbered to insure

safety. The miners are well supplied with timber and as a rule the working places are properly timbered. There is but little water to contend with. The greater part of the mine being dry in some sections it is necessary to properly water the dry and dusty sections. Ventilation is produced by a fan that furnishes sufficient air to properly ventilate the working sections. The coal is mined by pick and electric mine machines. In some sections where the roof is bad machines cannot be successfully operated making it necessary to mine the coal by pick, with mule and electric haulage. These two mines are connected by one tippie. The mining laws are generally complied with.

MICHAEL GALLAGHER, *Gen. Mgr.*

GEORGE MUSGROVE, *Mine Foreman.*

T. H. HUDDY, *Supt.*

BOOMER COAL & COKE COMPANY.

P. O. BOOMER, W. VA.

General Office, Cleveland, Ohio.

No. 538. *Mine No. 3.—Drift.*—Located one mile east of Boomer on a branch of the K. & M. Railroad, operating the No. 2 Gas seam of coal which has an average thickness of five feet, with a slate roof which is generally good, there being only a few places that require special attention. The miners are well supplied with timber and where necessary the working places are properly timbered. There is but little water to contend with. Drainage good. Ventilation is produced by a fan which furnishes sufficient air for a proper system of ventilation. Coal is mined by electric mine machines with mule and electric haulage. The mining law is well observed.

MICHAEL GALLAGHER, *Gen. Mgr.*

JOHN ELSWICK, *Mine Foreman.*

T. H. HUDDY, *Supt.*

BOOMER COAL & COKE COMPANY.

P. O. BOOMER, W. VA.

General Office, Cleveland, Ohio.

No. 539. *Mine No. 4.—Drift.*—Located one mile east of Boomer on a branch of the K. & M. Railroad, operating the No. 2 Gas seam, which has an average thickness of five and a half feet with a slate roof which is generally good, there being only a few places that have to be given careful attention. There is but little water to contend with. Drainage generally good. Ventilation is produced by a fan which furnishes sufficient air and is properly distributed throughout the mine. Coal is mined by electric machines with mule and electric haulage. The mining law is well complied with.

MICHAEL GALLAGHER, *Gen. Mgr.*

SAM KIMBERLY, *Mine Foreman.*

T. H. HUDDY, *Supt.*

SUNDAY CREEK COMPANY.

P. O. CARBONDALE, W. VA.

General Office, Columbus, Ohio.

No. 540. *Mine No. 111.—Drift.*—Located at Carbondale on a branch of the K. & M. Railroad one-half a mile east of Smithers, operating the No. 2 Gas seam of coal which varies in thickness from four and a half feet to five and a half feet. The roof is slate and generally good. There is but little water to contend with. Drainage good. In some sections of the mine it is necessary

to apply water to allay the dust. During the winter season steam is discharged into the intake air-way for the purpose of maintaining a proper system of humidity. Ventilation is produced by a fan which furnishes sufficient air which is properly distributed. Coal is mined by electric mine machines with mule and electric and rope haulage. The mining law is generally complied with.

N. D. MONSARRAT, *Gen. Mgr.*

LEE JENKINS, *Mine Foreman.*

W. F. MANDT, *Supt.*

SUNDAY CREEK COMPANY.

P. O. CARBONDALE, W. VA.

General Office, Columbus, Ohio.

No. 541. *Mine No. 112.—Drift.*—Located one and a half mile east of Smithers on a branch of the K. & M. Railroad operating the No. 2 Gas seam which varies in thickness from four to five feet with a slate roof which is generally good. Ventilation is produced by a fan which furnishes sufficient air and is properly distributed throughout the mine. The greater part of the mine is dry and some sections have to be watered to allay the dust. Coal is mined by electric mine machines with mule and electric motor haulage. In some sections of the mine the gathering motor is used successfully. The general conditions are very good throughout the mine and the mining laws are generally complied with. During the winter season steam is discharged into the intake air-way for the purpose of maintaining a proper system of humidity.

N. D. MONSARRAT, *Gen. Mgr.*

W. H. THOMPSON, *Mine Foreman.*

W. F. MANDT, *Supt.*

SUNDAY CREEK COMPANY.

P. O. LONGACRE, W. VA.

General Office, Columbus, Ohio.

No. 542. *Mine No. 114.—Drift.*—Located at Longacre on the main line of the K. & M. Railroad, operating the No. 2 seam of coal which has an average thickness of five feet. The roof is slate and generally good. There is but little water to contend with. Drainage good. Ventilation is produced by fans with good results. Coal is mined by electric mine machines with mule and electric haulage. The mining laws are generally complied with. During the winter season steam is discharged into the intake air-way for the purpose of maintaining a proper system of humidity.

N. D. MONSARRAT, *Gen. Mgr.*

F. W. MANDT, *Mine Foreman.*

W. F. MANDT, *Supt.*

SUNDAY CREEK COMPANY.

P. O. HAREWOOD, W. VA.

General Office, Columbus, Ohio.

No. 543. *Mine No. 115.—Drift.*—Located at Harewood, on the main line of the K. & M. Railroad, operating the No. 2 Gas seam of coal which has a thickness of five and a half feet with a slate roof which is generally good. There is but a small quantity of water to contend with. Drainage good. Ventilation is produced by a fan with good results. Coal is principally mined by

electric mine machines with mule and electric haulage. This is a large development and the general conditions are very good, as the mine law is well complied with. During the winter season the steam is discharged into the intake air way for the purpose of maintaining a proper system of humidity.

N. D. MONSARRAT, *Gen. Mgr.*

WILLIAM MARTIN, *Mine Foreman.*

W. F. MANDT, *Supt.*

HARVE WOODRUM, *Asst. Mine Fore.*

COLUMBUS IRON AND STEEL COMPANY.

P. O. MARTING, W. VA.

General Office, Columbus, Ohio.

No. 544. *Columbus Mine No. 1.—Drift.*—Located at Marting four miles east of Smithers, on a branch of the K. & M. Railroad, operating the No. 2 Gas seam of coal which varies in thickness from four to seven feet. In some sections where the coal is seven feet thick there is usually a slate parting varying in thickness from four to twenty-four inches. The roof is slate and is generally good, with the exception of a few places which have to be given special attention and must be properly timbered to insure safety. There is but little water to contend with, as the greater part of the mine is dry requiring the use of water to allay the dust. In addition to the use of water, during the winter season the steam is discharged into the intake airway for the purpose of maintaining a proper system of humidity. Ventilation is produced by two fans which furnish sufficient air for the present development, but as this mine is rapidly increasing in area it will be necessary to improve the system of ventilation in the near future to meet the requirements of the law. The coal is principally mined with electric mine machines with mule and electric haulage. The mine officials take special interest in complying with the mine law.

J. H. FRANTZ, *Gen. Mgr.*

J. F. HINDSON, *Mine Foreman.*

C. M. FENTON, *Supt.*

W. R. JOHNSON COAL COMPANY.

P. O. LONGACRE, W. VA.

No. 545. *Oakland Mine No. 1.—Drift.*—Located at Oakland on the main line of the K. & M. Railroad, operating the No. 1 Eagle seam of coal which has an average thickness of four feet with a slate and sandstone roof which is generally good. Ventilation is produced by a fan with good results. There is but little water to contend with. Drainage generally good. Coal is mined by electric mine machines and hauled by electric motors. The mine laws are generally observed.

O. R. JOHNSON, *Gen. Mgr.*

BEN HILL, *Mine Foreman.*

T. A. BARTLAM, *Supt.*

W. R. JOHNSON COAL COMPANY.

P. O. LONGACRE, W. VA.

No. 545. *Oakland Mine No. 2.—Drift.*—Located at Oakland on the main line of the K. & M. Railroad, operating the No. 2 Gas seam of coal, which varies in thickness from four to five and a half feet with slate roof which is generally good. The mine is practically dry, having but little water to contend with. Ventilation is produced by a fan with good results. Coal is mined by electric mine machines with mule and electric haulage. The mine law is generally ob-

served. The coal from both of these mines is loaded from the same tippie.
W. R. JOHNSON, *Gen. Mgr.* BEN HILL, *Mine Foreman.*
T. A. BARTLAM, *Supt.*

W. R. JOHNSON COAL COMPANY.

P. O. SMITHERS, W. VA.

No. 546. *Kanawha Gas Mine No. 2.—Drift.*—Located at Smithers on the main line of the K. & M. Railroad, operating the No. 2 Gas Seam of coal which has a thickness of five and a half feet with a slate roof which is good with the exception of places that are near the crop. The main part of this mine has been finished, the present workings being several openings around the crop for the purpose of recovering a block of coal that was left when the mine was first developed. Ventilation is produced by a temporary furnace and natural causes which give very unsatisfactory results. In some sections the drainage is poor. The coal is mined by pick and hauled by mules and electric motors. The mine will be finished in the very near future.

W. R. JOHNSON, *Gen. Mgr.* SAMUEL MITCHELL, *Mine Foreman.*
T. A. BARTLAM, *Supt.*

KANAWHA COUNTY.

CANNELTON COAL & COKE COMPANY.

P. O. CANNELTON, W. VA.

General Office, Saulte Ste. Marie, Ontario, Canada.

No. 547. *Cannelton Mine No. 1.—Drift.*—Located one mile east of Cannelton, on the Cannelton Railroad, operating the No. 2 Gas Seam of coal, which has an average thickness of six and one-half feet with a slate roof which is generally good, there being only a few places that must be carefully timbered to insure safety. In some sections of the mine there is considerable water to contend with. Drainage good. Ventilation is produced by a fan which furnishes sufficient air for a proper system of ventilation. Coal is mined by picks and electric chain machines, with mule and electric haulage. The mine officials, superintendent and mine foreman give careful attention to the safety of the mine. A very small quantity of explosive gas is liberated and this is given close attention by a competent man. The mining laws are generally observed.

W. C. FRANZ, *Gen. Mgr.* HENRY DEEM, *Mine Foreman.*
P. O. HARRIS, *Supt.* TOM CUNNINGHAM, *Asst. Mine Fore.*

CANNELTON COAL & COKE COMPANY.

P. O. CANNELTON, W. VA.

General Office, Saulte Ste. Marie, Ontario, Canada.

No. 547. *Cannelton Mine No. 2 North.—Drift.*—Located on the Cannelton Railroad one mile east of Cannelton, operating the No. 2 Gas Seam of coal which has an average thickness of six and one-half feet, with a slate roof which is good with few exceptions. The mine is well timbered and close attention is given to any conditions that might become in any way dangerous to the employees. In some sections of the mine there is considerable water to contend with. Drainage good. Ventilation is produced by a fan that

furnishes sufficient air which is properly distributed throughout the mine. A number of the headings liberate explosive gas in small quantities. Over-casts have been constructed to give the required splits in the air current. This mine is being developed on a plan that a proper system of ventilation can be maintained with but little additional expense. Coal is mined by electric chain machines with mule and electric motor haulage. This is one of the best equipped mines in the Fifth District, and the mining law is fully complied with.

W. C. FRANZ, *Gen. Mgr.*

HENRY DEEM, *Mine Foreman.*

F. O. HARRIS, *Dept.*

THOMAS COSGROVE, *Mine Foreman.*

WALTER CUTHERTSON, *Fire Boss.*

CANNELTON COAL & COKE COMPANY.

P. O. CANNELTON, W. VA.

General Office, Saulte Ste. Marie, Ontario, Canada.

No. 548. *Cannelton Mine No. 3.—Drift.*—Located on the Cannelton Railroad, one-half a mile east of Cannelton, operating the No. 1 Eagle Seam of coal which has a thickness of four and one-half feet. The roof is slate and generally good. The mine is practically dry. Ventilation is produced by a fan with good results. This is a new mine and as yet developments are small.

W. C. FRANZ, *Gen. Mgr.*

HENRY DEEM, *Mine Foreman.*

F. O. HARRIS, *Supt.*

FAYETTE COUNTY.

CANNELTON COAL & COKE COMPANY.

P. O. CANNELTON, W. VA.

General Office, Saulte Ste. Marie, Ontario, Canada.

No. 548. *Cannelton Mine No. 3, South.—Drift.*—Located on the Cannelton Railroad one mile east of Cannelton operating the No. 2 Gas Seam of coal which has a thickness of five feet. The roof is slate and very good. There is but little water to contend with. Drainage good. Ventilation is produced by a fan which furnishes sufficient air and is properly distributed throughout the mine. Coal is mined by an electric mine machine with mule and electric haulage. The mining law is fully complied with.

W. C. FRANZ, *Gen. Mgr.*

HENRY DEEM, *Mine Foreman.*

F. O. HARRIS, *Supt.*

THOMAS COSGROVE, *Mine Foreman.*

KANAWHA COUNTY.

HUGHES CREEK COAL COMPANY.

P. O. HUGHESTON, W. VA.

No. 549. *Hugheston Mine No. 2.—Drift.*—Located at Hugheston on the main line of the K. & M. Railroad, operating the Coalburg Seam which has a thickness of five and a half feet with slate roof which in some sections is of a dangerous character, especially where there is a draw slate that has to be taken down or properly timbered to insure safety. There is considerable quantity of water to contend with. Drainage good. Ventilation is produced

by two fans which furnish sufficient air when properly distributed to the working places. Coal is mined by electric machines with mule and electric haulage. The mine laws are generally complied with.

JOHN C. GILMOUR, *Gen. Mgr. & Supt.* THOMAS W. GOSMAY, *Mine Foreman.*

HUGHES CREEK COAL COMPANY.

P. O. HUGHESTON, W. VA.

No. 549. *Hugheston Mine No. 3.—Drift.*—Located at Hugheston, on the main line of the K. & M. Railroad, operating the Coalburg Seam which has a thickness of five and a half feet. The roof is slate and in some sections is of a dangerous character, especially where there is a draw slate that varies in thickness from eight to eighteen inches which has to be taken down to insure safety. Ventilation is produced by a fan which furnishes sufficient air to give good system of ventilation when properly distributed. Coal is mined by electric mine machines with electric motor and mule haulage. The mining laws are generally complied with.

JOHN C. GILMOUR, SR., *Gen. Mgr. & Supt.* JOHN W. NUGENT, *Mine Foreman.*

HUGHES CREEK COAL COMPANY.

P. O. HUGHESTON, W. VA.

No. 549. *Mine No. 4.—Drift.*—Located at Hugheston and operating the No. 2 Gas Seam of coal which has a thickness of four feet with a slate roof is generally good. There is little water to contend with; the mine is practically dry. Drainage good. Ventilation is produced by a fan which furnishes sufficient air to give a proper system of ventilation. Coal is mined by electric mine machines with mule and electric motor haulage. The machine cuttings are stored in the mine, and with this exception, the mine law is well observed.

JOHN C. GILMOUR, SR., *Gen. Mgr. & Supt.* J. W. ARMSTRONG, *Mine Foreman.*

KELLEY'S CREEK COLLIERY COMPANY.

P. O. WARD, W. VA.

No. 550. *Kelley's Creek Mine No. 1.—Drift.*—Located at Ward on the Kelley's Creek & Northwestern Railroad, operating the Coalburg Seam which has a thickness of five and a half feet with a slate roof, which is generally good, and the working places are properly timbered. Ventilation is produced by a fan which furnishes sufficient air that is properly distributed throughout the mine. There is but little water to contend with. Drainage good. Coal is mined by electric mine machines with mule and motor haulage. The mine laws are well complied with.

J. W. DAWSON, *Gen. Mgr.* J. W. COOPER, *Mine Foreman.*

CHARLES C. GRESSANG, *Supt.*

KELLEY'S CREEK COLLIERY COMPANY.

P. O. WARD, W. VA.

No. 551. *Kelley's Creek Mine No. 3.—Drift.*—Located at Ward on the Kelley's Creek & Northwestern Railroad, operating the Coalburg Seam which has a thickness of five and a half feet with slate roof which in some sections is of a dangerous character, especially where there is a draw slate that varies in thickness from six to fifteen inches which has to be taken down or properly

timbered to insure safety. The miners are well supplied with timber, as a rule the working places are properly timbered. There is but little water to contend with. Drainage good. Ventilation is produced by two fans with good results, as the system of development is such that each fan has a separate intake and return air-way. Coal is mined by electric mine machines with mule and electric motor haulage. Mining laws are generally complied with.

J. W. DAWSON, *Gen. Mgr.*

HENRY E. VAUGHN, *Mine Foreman.*

CHARLES C. GRESSANG, *Supt.*

SUNDAY CREEK COMPANY.

P. O. SHREWSBURY, W. VA.

General Office, Columbus, Ohio.

No. 552. *Mine No. 101.—Drift.*—Located at Shrewsbury on the main line of the K. & M. Railroad, operating the No. 5 Seam of coal which has a thickness of five feet with sandstone and slate roof which is good with few exceptions where there is a draw slate which must be taken down or properly timbered to insure safety. Ventilation is produced by a fan and is generally good, there being several openings near the advanced workings. There is a considerable quantity of water to contend with. The system of drainage is poor, as the conditions are such that it would make it very expensive to maintain a proper system of drainage. Coal is mined by electric chain machines with mule and electric motor haulage. With the exception of a poor system of drainage the mining law is well observed.

N. D. MONSARRAT, *Gen. Mgr.*

JAMES KENNEDY, *Mine Foreman.*

E. L. MICHIE, *Supt.*

SUNDAY CREEK COMPANY.

P. O. CEDAR GROVE, W. VA.

General Office, Columbus, Ohio.

No. 553. *Mine No. 104.—Drift.*—Located near Cedar Grove on the Kelley's Creek Railroad, operating the Coalburg Seam of coal which has an average thickness of five feet with a slate and sandstone roof, and all the sections where the roof is slate have to be properly timbered to insure safety. There is little water to contend with. Drainage good. Ventilation is produced by a fan which furnishes sufficient air and is properly distributed throughout the mine. Coal is mined by electric mine machines with mule and electric motor haulage. The mining law is well observed.

N. D. MONSARRAT, *Gen. Mgr.*

J. H. MILLER, *Mine Foreman.*

E. L. MICHIE, *Supt.*

SUNDAY CREEK COMPANY.

P. O. MAMMOTH, W. VA.

General Office, Columbus, Ohio.

No. 554. *Mine No. 105.—Drift.*—Located at Mammoth on the Kelley's Creek Railroad, operating the Coalburg Seam of coal which varies in thickness from four and a half to six feet, with slate roof which is generally good, with the exception of a few places. There is little water to contend with. Drainage good. Ventilation is produced by two fans which give good results. Coal

is mined by electric mine machines with mule and electric haulage. The mining laws are generally complied with.

N. D. MONSARRAT, *Gen. Mgr.*

J. W. FRAZIER, *Mine Foreman.*

E. L. MICHE, *Supt.*

THE MARMET COAL COMPANY.

P. O. MONARCH, W. VA.

General Office, Cincinnati, Ohio.

No. 555. *Monarch Mine No. 1.—Drift.*—Located at Monarch on the main line of the K. & M. Railroad, operating the Cedar Grove Seam of coal which has an average thickness of three and a half feet with a slate roof and with few exceptions is good. The mine is practically dry. Some sections have to be watered to allay the dust. Coal is mined by electric mine machines with mule and electric haulage. The mining laws are generally complied with.

EDWIN MARMET, *Gen. Mgr.*

LEWIS ROACH, *Mine Foreman.*

W. H. MORRIS, *Supt.*

THE MARMET COAL COMPANY.

P. O. MONARCH, W. VA.

General Office, Cincinnati, Ohio.

No. 555. *Monarch Mine No. 2.—Drift.*—Located at Monarch, operated in connection with No. 1 mine, the products of both mines being loaded from the same tippie. Operating the Cedar Grove Seam of coal which has an average thickness of three and a half feet with a slate roof which is generally good, and the working places properly timbered. The mine is practically dry, it being necessary to water some sections to allay the dust. Ventilation is produced by a fan which furnishes sufficient air for the number of persons employed. Coal is mined by electric chain machines with mule and electric motor haulage.

EDWIN MARMET, *Gen. Mgr.*

LEWIS ROACH, *Mine Foreman.*

W. H. MORRIS, *Supt.*

QUINCY COAL COMPANY.

P. O. QUINCY, W. VA.

No. 556. *Mine No. 2.—Drift.*—Located one mile east of Dickinson, on a branch of the K. & M. Railroad, operating the No. 5 Seam of coal which has a thickness of five and a half feet with a slate roof which is generally good. In some sections there is considerable water to contend with. Drainage generally good. Ventilation is produced by a fan which furnishes sufficient air to meet the requirements of the law. Coal is mined by electric chain machines with mule and electric haulage. The mine law is generally observed.

JOHN L. DICKINSON, *Gen. Mgr.*

JAMES HEMMINGS, *Mine Foreman.*

JOHN C. GILMOUR, JR., *Supt.*

CAMPBELLS CREEK COAL COMPANY.

P. O. PUTNEY, W. VA.

General Office, Cincinnati, Ohio.

No. 557. *Mine No. 1.—Drift.*—Located at Putney on the Campbell's Creek Railroad, operating the No. 5 Seam of coal which varies in thickness from five

to six feet with a slate roof that has to be properly timbered to insure safety. The miners are well supplied with timber and as a rule the working places are properly timbered. There is but little water to contend with; drainage good. Ventilation is produced by a fan which furnishes sufficient air that is properly distributed throughout the mine. Coal is mined by electric chain machines with mule and electric motor haulage. The mining law is generally complied with.

W. V. RENSFORD, *Mgr. & Supt.*

ANDREW CALDERWOOD, *Mine Foreman.*

R. P. GILHAM, *Gen. Mgr.*

CHARLES BLAKE, *Asst. Mine Fore.*

CAMPBELLS CREEK COAL COMPANY.

P. O. PUTNEY, W. VA.

General Office, Cincinnati, Ohio.

No. 558. *Mine No. 3.—Drift.*—Located at Putney on the Campbell's Creek Railroad, operating the No. 5 Seam of coal which varies in thickness from four and a half to five and a half feet with a slate and sandstone roof which is good with the exception of a few places where the roof is slate which has to be well timbered to insure safety. There is little water to contend with. Drainage good. Ventilation is produced by a fan with good results. Coal is mined by electric mine machine with mule and electric motor haulage. The mining laws are generally observed.

W. V. RENSFORD, *Mgr. & Supt.*

ANDREW CALDERWOOD, *Mine Foreman.*

R. P. GILHAM, *Gen. Mgr.*

ED. WILLIAMS, *Asst. Mine Foreman.*

HARVY HYSSELL, *Asst. Mine Foreman.*

VIRGINIA COAL COMPANY.

P. O. COAL FORK, W. VA.

No. 559. *Virginia Mine.*—This is a drift located at Coal Fork on Campbell's Creek, operating the Campbell's Creek Seam of coal which has a thickness of four feet with a slate and sandstone roof which is generally good. Ventilation is produced by a fan which furnishes sufficient air for the number of persons employed. In some sections of the mine they have considerable quantity of water to contend with. Drainage generally good. The coal is mined by electric mine machines with mule and electric motor haulage. The mine law is well observed.

THOMAS A. KAY, *Gen. Mgr. & Supt.*

THOMAS BOYD, *Mine Foreman.*

MORRIS FORK COAL COMPANY.

P. O. HEATHERMAN, W. VA.

General Office, Charleston, W. Va.

No. 560. *Turner Mines No. 1 and 2.—Drifts.*—Located one mile east of Turner on a branch of the Coal & Coke Railroad, operating the No. 5 Seam of coal which varies in thickness from three to three and a half feet with a slate and sandstone roof, which is generally good. Ventilation is produced by a fan with good results. There is but little water to contend with. Drainage good. Coal is mined by electric chain machines with mule and electric motor haulage. The mining law is generally observed. The products of both of these mines are loaded from the same tippie.

J. D. STEELE, *Gen. Mgr.*

A. D. DEWITT, *Mine Foreman.*

ALFRED H. LEA, *Supt.*

VILLA COAL & MINING COMPANY.

P. O. VILLA, W. VA.

No. 561. *Mill Creek Mine.—Drift.*—Located at Villa on a narrow gauge road four and a half miles from the main line of the Coal & Coke, operating the Cannel Coal Seam, which varies in thickness from eighteen inches to four feet with a slate roof which in some sections is bad. System of drainage poor. Ventilation is produced by a twelve-foot fan which furnishes sufficient air but is not properly distributed throughout the working places owing to the faulty condition of this seam of coal in this section making it very expensive to maintain a proper system of development as well as good system of drainage and ventilation. The coal is practically all shot from the solid. The coal is hauled to the outside by mules and from that point is delivered to the tippie on the main line of the Coal & Coke by steam locomotive.

H. A. JEPSON, *Supt.*HENRY MATHENY, *Mine Foreman.*

WILLIAMS COAL COMPANY.

P. O. SANDERSON, W. VA.

No. 562. *Williams Mine.—Drift.*—Located at Morris on the Kanawha & Michigan Railroad, operating the No. 5 Seam of coal which varies in thickness from four to four and a half feet. The roof is slate and sandstone and in some sections is bad, especially the sections where there is a slate roof. There is some water to contend with. System of drainage only fair. Ventilation is produced by a fan which furnishes sufficient air if properly distributed to the working places. Coal is mined by electric mining machines with mule and electric motor haulage. The mine law is generally complied with.

WILLIAM CRICHTON, *Supt.*R. L. MILLER, *Mine Foreman.*

STANDARD KANAWHA COAL MINING COMPANY.

P. O. QUICK, W. VA.

General Office, Scranton, Pa.

No. 563. *Mine No. 1.—Drift.*—Located at Roderick on the Kanawha & West Virginia Railroad, operating the No. 5 Seam of coal which has an average thickness of four and a half feet, with a slate and sandstone roof which is generally good. In some sections of the mine there is some water to contend with. The system of drainage is good. Ventilation is produced by a fan with good results. The coal is mined by electric mine machines with mule and electric motor haulage. Mining laws are generally complied with.

R. M. LEYSHON, *Supt.*SAM ROEBUCK, *Mine Foreman.*

STANDARD KANAWHA COAL MINING COMPANY.

P. O. SANDERSON, W. VA.

General Office, Scranton, Pa.

No. 564. *Mine No. 2.—Drift.*—Located at Morris on the Kanawha and West Virginia Railroad, operating the No. 5 Seam of coal which has a thickness of five feet with a slate and sandstone roof which is generally good. Ventilation is produced by a fan with good results. Coal is mined by electric chain machines with mule and electric haulage. The mine law is well observed.

R. M. LEYSHON, *Supt.*J. M. ROSS, *Mine Foreman.*

QUEEN SHOALS COAL COMPANY.

P. O. QUEEN SHOALS, W. VA.

No. 565. *Queen Shoals Mine.—Drift.*—Located at Queen Shoals on the main line of the Coal & Coke Railroad, operating the No. 5 Seam of coal which varies in thickness from three and a half to five feet, with a slate roof which is good with few exceptions. There is but little water to contend with, for the mine is practically dry. Ventilation is produced by means of a furnace which furnished sufficient air for the number of persons employed as the work being done is principally the drawing of pillars. All work being on the retreat and this mine will be finished in the near future. Coal is pick mined with mule haulage. The mine law is generally observed.

W. M. PRINCE, *Gen. Mgr.*CHARLES LEFTWICH, *Mine Foreman.*W. R. MORRIS, *Supt.*

BLUE CREEK COAL & LAND COMPANY.

F. O. BLAKELEY, W. VA.

General Office, Charleston, W. Va.

No. 566. *Will's Hollow Mines No. 1 and 2.—Drifts.*—Located one mile west of Blakeley on the Kanawha and West Virginia Railroad, operating the No. 5 Seam of coal which has an average thickness of four and a half feet, with a slate and sandstone roof which is generally good. In some sections of the mines they have some water to contend with; drainage good. Ventilation is produced by two fans which furnish sufficient air and give a proper system of ventilation. Coal is mined by electric mine machines with mule and electric motor haulage. The products of both mines are loaded from the one tippie. The No. 1 mine has not been in operation during the year. The mining laws are generally complied with.

C. E. FULTZ, *Gen. Mgr.*WILLIAM CRICHTON, JR., *Supt.*HARRY ROWLAND, *Mine Foreman.*

BLUE CREEK COAL & LAND COMPANY.

P. O. BLAKELEY, W. VA.

General Office, Charleston, W. Va.

No. 567. *Blackely Mine No. 3.—Drift.*—Located at Blackely on the Kanawha and West Virginia Railroad, operating the No. 5 Seam of coal which varies in thickness from four and a half to five feet with a slate and sandstone roof which in some sections is bad, especially where there is a draw slate varying in thickness from four to twelve inches which must be taken down or properly timbered to insure safety. There is but little water to contend with; drainage generally good. Ventilation is produced by a fan with good results. Coal is mined by electric mine machines with mule and electric motor haulage. The mining laws are generally observed.

C. E. FULTS, *Gen. Mgr.*T. H. CARLIN, *Mine Foreman.*WILLIAM CRICHTON, JR., *Supt.*

COOPER'S CREEK COAL COMPANY.

P. O. BREAM, W. VA.

No. 568. *Peacock Mine.—Drift.*—Located at Bream on the Coal & Coke Railroad, operating the Coalburg Seam of coal which has a thickness of five

and a half feet with a slate roof which is generally good. Ventilation is produced by natural causes with poor results. Drainage fair. This mine is operated on a small scale employing only a few men. Coal is pick mined with mule haulage.

O. D. STRADER, *Supt. & Mine Foreman.*

PEN MAR MINING COMPANY.

P. O. BREAM, W. VA.

No. 569, *Pen Mar Mine*.—*Drift*.—Located at Bream seven miles east of Charleston on the Coal & Coke Railroad operating the Coalburg Seam of coal which has a thickness of five feet with a slate roof which is generally good. Ventilation is produced by natural causes which furnish sufficient air for the number of persons employed, as this is a new opening and as yet but few persons are employed. There is but little water to contend with. Drainage good. Coal is pick mined with mule haulage. This mine is operated on a cheap scale.

JACOB HOUSEHOLDER, *Supt.*

CHARLES JOHNSON, *Mine Foreman.*

WEIRWICK CANNEL COAL COMPANY.

P. O. WEIR, W. VA.

No. —, *Weirwick Mine*.—*Drift*.—Located at Falling Rock on a narrow gauge road to the Coal & Coke, operating the Cannel Seam of coal which varies in thickness from three to five feet, with a slate and sandstone roof which in some sections is bad, especially where there is slate. Ventilation is produced by means of a temporary furnace which furnishes sufficient air for the number of persons employed, as this is an old mine re-opened and employs from five to ten persons. Coal is principally all shot from the solid with mule haulage. The mine has been idle a number of years and nothing definite could be learned as to when it would resume operations.

R. B. YOUNG, *Supt. & Mine Foreman.*

SIXTH DISTRICT.

GENERAL SUMMARY FOR THE SIXTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings. No. of Persons Killed.		EMPLOYEES.								Production of	
			Inside.					Outside.			Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.
Kanawha..... (Part)	44	16	544	1,394	365	851	2,154	529	529	2,683	3,046,679	
Raleigh..... (Part)	3	4	39	225	32	114	410	79	79	489	597,097	
Boone.....	8	1	25	211	34	62	332	92	92	424	329,179	
Logan.....	33	10	71	1,574	257	683	2,585	490	490	3,075	3,243,033	
Totals.....	88	31	679	3,404	688	1,710	5,581	1,190	1,190	6,671	7,215,988	

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

Chelyan, W. Va., June 30th, 1912.

MR. JOHN LAING,

Chief of Department of Mines,
Charleston, W. Va.

DEAR SIR:—

As District Mine Inspector for the Sixth Mining District of the State of West Virginia and in compliance with the law I herewith respectfully submit my report for the fiscal year ending June 30th, 1912.

In addition to the number of inspections and special visits reported elsewhere in this report, I assisted in conducting several examinations for mine foreman and fire bosses and was on a leave of absence without pay from April 15th to June 10th, 1912.

The mines in this district are kept in a safe as well as sanitary condition, except for the roof which in some places is to some extent neglected by both miners and operators and a small number of mines are very dry and in some cases dusty and during the past year and especially during the winter months, I have tried to impress on the management the importance of keeping them wet but there has been very little done towards establishing any permanent means whereby the humidity will remain the same throughout the year.

Except for one man who was fatally burned with black powder in the Carbon Splint Mine, there has been no loss of life in this district due to explosions of any kind but the number of fatal and non-fatal accidents have not been reduced. A large number of them are due to the neglect of timbering the roof and the reckless manner of handling haulage motors and cars. The more I see of the mines and class of men employed in this state the more I am impressed with the fact that we need a much better discipline among the employees from trapper boys to Superintendents and until this is established we cannot hope to reduce the large list of fatalities.

In a large number of mines the mine foreman's duties are entirely too many and it is my opinion that each mine should have one or more inspectors employed and paid by the month and then they would be on hand regardless of whether the mine worked or not, whose duties it should be to visit each working place every day, see that all loose hanging roof is taken down or kept properly timbered, look after the general safety of the mine and report to the mine foreman.

The Carbon Coal Company recently installed an up to date power plant to supply power to the thirteen mines under that management. It consists of two Sterling boilers of 400 H. P. each and one 750 K. W. turbine engine and generator making 2300 volts which is reduced at the mines by sub-stations to 250 volts. This plant is built with the intentions of installing next year duplicate boilers and machinery.

The names of mines which began operation during the year are Republic No. 5, Raccoon No. 2 East, Seng Creek, Hickory Ash, Spruce Bend and Ramage.

In conclusion I wish to thank the miners and operators for the kind treatment I have received from them during the year and the many courtesies I received from your office have been greatly appreciated.

Yours very truly,

BONNER H. HILL.

BOONE COUNTY.

THE COAL RIVER COMPANY.

CLOTHIER, W. VA.

No. 601. *Ottawa Mine*.—This mine is located on the Coal River branch of the C. & O. R. R., and the Spruce Fork of Coal River; is a drift opening operating the No. 1 Eagle Seam, which is five feet thick, on the room and pillar system with double and triple entries.

The ventilation produced by a five foot Stine fan and conducted by stone stoppings and over-casts is good. The coal is overlaid by a good stone roof. The mine is dry throughout, which necessitates watering to allay the dust and this is done with pipe line and hose which conducts the water through the different parts of the mine.

The coal is undercut by electric chain machines and hauled by electric motors and mules. The mine is capable of producing 500 tons per day.

R. A. McCURE, *Supt.*

J. M. MOORE, *Supt.*

ED. ZWILLING, *Mine Foreman.*

THE SPRUCE RIVER COAL COMPANY.

RAMAGE, W. VA.

No. 602. *Ramage Mine*.—This mine is located on the Coal River branch of the C. & O. R. R., and the Spruce Fork of Coal River; is a drift opening operating the No. 1 Eagle Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced by a six-foot fan propelled by a gasoline engine is good when the fan is running. The roof and drainage are good.

The coal is partly undercut by hand with picks and shot from the solid, which system of mining I think is dangerous and do not approve. The coal is hauled with mules and the mine is capable of producing 250 tons per day.

J. B. RAMAGE, *Supt.*

ED. STANLEY, and

JOHN HENRY, *Mine Foreman.**PEYTONA BLOCK COAL COMPANY.*

PEYTONA, W. VA.

No. 603. *No. 1 Mine*.—This mine is located on the Coal River branch of the C. & O. R. R., and Coal River; is a drift opening operating the Peytona Cannel Seam, which is two feet thick, on the room and pillar system with double entries.

The ventilation produced by a furnace is good. The roof is good.

The coal is undercut with electric low vein chain machines. Owing to the dip of the coal seam and water in the old workings, this mine has made little progress during the year but is capable of producing 75 tons per day.

C. H. MEAD, *Supt.*A. STOVER, *Mine Foreman.**PEYTONA BLOCK COAL COMPANY.*

PEYTONA, W. VA.

No. 604. *Peytona Block No. 2 Mine*.—This mine is located at Peytona on the Coal River branch of the C. & O. R. R., is a drift opening operating a splint coal four feet thick, on the room and pillar system with double entries.

The ventilation produced by two furnaces is good. Roof and drainage are good.

The coal is undercut with electric chain machines and the mine is capable of producing 200 tons per day.

C. H. MEAD, *Supt.*R. A. SNEAD, *Mine Foreman.**HICKORY ASH COAL COMPANY.*

PEYTONA, W. VA.

General Office, Wellston, Ohio.

No. 605. *No. 1, 2, and 3 Mine*.—This mine is located on the Coal River branch of the C. & O. R. R., and Indian Creek, a tributary of Coal River; is a drift opening operating a splint coal from three to four feet thick, on the room and pillar system with double entries.

The ventilation produced by furnaces and a fan is good. The roof and drainage are good.

The coal is undercut with electric chain machines and hauled to the tippie by electric motors. This mine is capable of producing 300 tons per day.

H. A. GODDARD, *Gen. Mgr.*C. L. VOGLESANG, *Supt.*THOMAS WATERS, *Mine Foreman.*

SENG CREEK COAL COMPANY.

JARROLD'S VALLEY, W. VA.

No. 606. *Blue Star Mine*.—This mine is located on the Coal River extension of the Cabin Creek branch of the C. & O. R. R., and Coal River; is a drift opening operating the Coalburg Seam, on the room and pillar system with double entries.

The ventilation produced by a fan is good. Roof and drainage are good.

The coal in this mine is undercut with electric chain machines and hauled by electric motors. This mine is capable of producing 250 tons per day.

FRANK FACNOLA, *Supt.*

B. FACNOLA, *Mine Foreman*.

WEBB COAL MINING COMPANY.

GARRISON, W. VA.

General Office, Merchants Library Building, Cincinnati, Ohio.

No. 607. *Webb Mine*.—This mine is located on the Coal River extension of the Cabin Creek branch of the C. & O. R. R., and Seng Creek; is a drift opening operating the Coalburg Seam, which is seven feet thick, on the room and pillar system with double entries.

This mine consists of several openings which are ventilated by natural causes. The roof, now in the crop, is not good but will get much better as the work advances under cover. Drainage is good.

The coal is undercut with electric chain machines and hauled by mules. This mine is capable of producing 500 tons per day.

JOHN HOLMES, *Supt.*

CLEVE HOLMES, *Mine Foreman*.

ANCHOR COAL COMPANY.

HIGH COAL, W. VA.

No. 608. *Anchor Mine*.—This mine is located on the Coal River extension of the Cabin Creek branch of the C. & O. R. R., and Seng Creek; is a drift opening operating the Coalburg Seam, which is seven feet thick with a small parting, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Crawford and McCrommon fan is good. The roof and drainage are good.

The coal is undercut with electric chain machines and hauled by electric motors and the mine is capable of producing 450 tons per day.

G. H. HORNICKEL, *Supt.*

ROBERT CADWALENDER, *Mine Foreman*.

RALEIGH COUNTY.

CLEAR FORK COAL COMPANY.

JARROLD'S VALLEY, W. VA.

No. 609. *Leccale Mine*.—This mine is located on the Coal River extension of the Cabin Creek branch of the C. & O. R. R., and Coal River; is a drift opening operating the Coalburg Seam, which is from five to six feet thick, on the room pillar system with double entries.

The ventilation produced by a five-foot Stine fan is good. A large part of the roof is good sand stone. Drainage good.

The coal is undercut with electric chain machines and hauled with electric

motors. The mine is capable of producing 450 tons per day.

R. BENNETT, *Supt.*

JOHN W. BRANHAM, *Supt.*

TOM FISHER, *Mine Foreman.*

FOUR STATES COAL & COKE COMPANY.

DOROTHY, W. VA.

General Office, Pittsburg, Pa.

No. 610. *Dorothy Mine.*—This mine is located on the Coal River extension of the Cabin Creek branch of the C. & O. R. R. and Coal River; is a drift opening operating the Coalburg Seam, which is eleven feet six inches thick including a slate parting, on the room and pillar system with double and triple entries.

The ventilation is produced by a ten-foot Jeffry fan conducted by stone and concrete stoppings and overcasts is good. Roof and drainage are good.

The coal is undercut with electric chain machines and hauled by electric motors. The mine is capable of producing 1600 tons per day.

C. E. SANDBERG, *Mgr.*

C. E. COLEMAN and

W. J. WOLF, *Supt.*

PHILIP GUYER, *Mine Foremen.*

FOUR STATES COAL & COKE COMPANY.

DOROTHY, W. VA.

General Office, Pittsburg, Pa.

No. 611. *Sarita Mine.*—This mine is located on the Coal River extension of the Cabin Creek branch of the C. & O. R. R. and Coal River; is a drift opening operating the Coalburg Seam, which is eleven feet six inches thick including a slate parting on the room and pillar system with double and triple entries.

The ventilation is produced by a ten foot Capel fan and is good. The roof and drainage are good.

The coal is undercut with electric chain machines and hauled by electric motors. The mine is capable of producing 1400 tons per day.

C. E. SANDBERG, *Mgr.*

C. E. FOSTER and

W. J. WOLF, *Supt.*

W. ASCOUTH, *Mine Foremen.*

KANAWHA COUNTY.

OLCOTT COAL & IRON COMPANY.

OLCOTT, W. VA.

No. 612. *Olcott No. 1 Mine.*—This mine is located on the Kanawha Central R. R., and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band Seam, which is forty inches thick, on the room and pillar system with double entries.

The ventilation produced by three seven-foot Thayer fans is good. The roof and drainage are generally good.

The coal is undercut with electric chain machines and is one of the best grades of domestic coal mined in this state. The mine is capable of producing 400 tons per day.

W. C. LINGLE, *Supt.*

WALTER DALE, *Mine Foreman.*

OLCOTT COAL & IRON COMPANY.

OLCOTT, W. VA.

No. 613. *Olcott No. 2 Mine*.—This mine is located on the Kanawha Central R. R., and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band Seam, which is from two to four feet thick, on the room and pillar system with double entries.

The ventilation produced by two seven foot Thayer fans is generally good. In some parts of the mine the roof is not good and requires careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and is one of the best grades of domestic coal mined in this state. The mine is capable of producing 350 tons per day.

W. C. LINGLE, *Supt.*WM. GRIFFITH, *Mine Foreman.*

PAINT CREEK COLLIERIES COMPANY.

OLCOTT, W. VA.

General Office, Charleston, W. Va.

No. 614. *Reynolds Mine*.—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band Seam, which is three feet ten inches thick and one of the best grades of domestic coals in the state, on the room and pillar system with double entries.

The ventilatin produced by an eight-foot Thayer fan is good. Roof and drainage are good.

The coal is undercut with electric chain machines and hauled by electric motors and mules. This mine is capable of producing 600 tons per day.

A. H. HALE, *Gen. Mgr.*WM. H. CLENDENIN, *Mine Foreman.*

PAINT CREEK COLLIERIES COMPANY.

DUNGRIFF, W. VA.

General Office, Charleston, W. Va.

No. 615. *Knickerbocker Mine*.—This mine is located on the Kanawha Central R. R. and Brier Creek, a tributary of Coal River; is a drift opening operating the Black Band Seam, which is three feet three inches thick and one of the best grades of domestic coal in the state.

The ventilation produced by three furnaces is generally found good. In some parts of the mine an despecially along the haulways the drainage is not good. The roof is good.

The coal is shot from the solid but the mine is kept moist throughout and each shot is inspected by a shot inspector before it is fired. This mine is capable of producing 350 tons per day.

A. H. HALE, *Gen. Mgr.*LEE SCOTT, *Supt.*WILL MILLER, *Mine Foreman.*

THE MARMET COAL COMPANY.

MARMET, W. VA.

General Office, Cincinnati, Ohio.

No. 616. *New Butler Mine*.—This mine is located on the West Virginia and Southern R. R. and Lens Creek; is a drift opening operating the Butler Seam,

which is from five to seven feet thick including a middle slate parting, on the room and pillar system with double entries.

The ventilation produced by an eight foot Crawford and McCrimmon fan is good. Owing to the large quantity of water liberated and natural conditions in some parts of this mine the drainage is not good. Small gas feeders have been found in the advance headings.

The coal is undercut with electric chain machines and hauled to the tippie by electric motors and mules. The mine is capable of producing 300 tons per day.

W. H. MORRIS, *Supt.*

WM. BOWEN *and*

J. T. McALLISTER, *Mine Foreman.*

THE MARMET COAL COMPANY.

MARMET, W. VA.

General Office, Cincinnati, Ohio.

No. 617. *Lens Creek Mine.* This mine is located on the West Virginia and Southern R. R. and Lens creek; is a drift opening operating the Lens Creek Seam, which is forty-two inches thick, on the room and pillar system with double entries.

The ventilation produced by a ten-foot Thayer fan is good. Owing to the quantity of water and natural conditions in some parts of this mine the drainage is not good. In some sections of the mine there is a draw slate which if not taken down or properly timbered is dangerous.

The coal in this mine is undercut with electric chain machines and the mine is capable of producing 250 tons per day.

W. H. MORRIS, *Supt.* T. J. McALLISTER, *Mine Foreman.*

THE MARMET COAL COMPANY.

MARMET, W. VA.

General Office, Cincinnati, Ohio.

No. 618. *Black Band Mine.*—This mine is located on the West Virginia and Southern R. R. and Lens Creek a tributary of Kanawha river; is a drift opening operating the Black Band Seam, which is forty-six inches thick, on the room and pillar system with double entries.

The ventilation produced by a ten and five foot Thayer fans is good. The roof is generally good. Drainage is good.

The coal is undercut with electric chain machines and is hauled with electric motors of the Goodman type. This mine is capable of producing 600 tons per day.

W. H. MORRIS, *Supt.*

FRANK PRICE, *Mine Foreman.*

WINIFREDE COAL COMPANY.

WINIFREDE, W. VA.

No. 619. *North Mine.*—This mine consists of the North Pick and North Machines mines and is located on the Winifrede R. R. and Fields Creek; is a drift opening operating the Winifrede Seam, which is five feet and six inches thick including a thick middle slate, on the room and pillar system with double entries.

Owing to a large quantity of black damp coming from the old workings the

ventilation produced by a six and ten-foot Thayer fans is not good at all times. In some parts of the mine the roof is not good. Drainage is good.

The coal is undercut with electric chain machines and by hand with picks and the mine is capable of producing 500 tons per day.

F. D. BARRON, *Supt.*

W. L. HARLESS, *Mine Foreman.*

FRANK B. STEWART, *Gen. Mgr.*

W. H. STUART, *Mine Foreman.*

WINIFREDE COAL COMPANY.

WINIFREDE, W. VA.

No. 620. *West Mine.*—This mine is located on the Winifrede R. R., and Fields Creek; is a drift opening operating the Winifrede Seam, which is from three feet ten inches to five feet thick including a middle slate, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Thayer fan is generally good. In some parts of the mine the roof is not good. Drainage is good except in some haulways.

The coal is mined by hand with picks and shot from the solid. The mine is capable of producing 450 tons per day.

F. D. BARRON, *Supt.*

W. L. HARLESS, *Mine Foreman.*

FRANK B. STEWART, *Gen. Mgr.*

C. A. McKEE, *Mine Foreman.*

WINIFREDE COAL COMPANY.

WINIFREDE, W. VA.

No. 621. *South Mine.*—This mine is located on the Winifrede R. R., and Fields Creek, a tributary of Kanawha river; is a drift opening operating the Winifrede Seam, which is six feet thick including a thick slate parting, on the room and pillar system with double entries.

The ventilation produced by a ten-foot Thayer fan is generally good, but owing to a creep on some parts of this mine the air-ways are not kept open which at times greatly hinders the air from reaching all the workings. In some parts of the mine the roof is not good. Drainage is good except in some haulways.

The coal is undercut with electric chain machines and by hands with picks and the mine is capable of producing 400 tons per day.

F. D. BARRON, *Supt.*

WM. WEAVER, *Mine Foreman.*

FRANK B. STEWART, *Gen. Mgr.*

W. L. HARLESS, *Mine Foreman.*

LEWIS COAL & COKE COMPANY.

CHELYAN, W. VA.

No. 622. *Lewiston Mine.*—This mine is located near Cabin Creek Junction on the main line of the C. & O. R. R., is a drift opening operating the Lewiston Seam, on the room and pillar system with double entries.

The ventilation produced by a furnace is not good but a fan is now on the ground and will be installed as soon as possible. The roof is good except some draw slate. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors and mules. The mine is capable of producing 300 tons per day.

S. A. LEWIS, *Supt.*

R. M. ODELL, *Mine Foreman.*

D. B. HOWERY, *Mine Foreman.*

LEWIS COAL & COKE COMPANY.

CHELYAN, W. VA.

No. 622. *Coaling Station Mine*.—This mine is located near Cabin Creek Junction on the main line of the C. & O. R. R., is a drift opening operating the Peerless Seam, which is twenty-eight inches thick, on the room and pillar system with double entries.

The ventilation produced by a five-foot Thayer fan is good. Roof and drainage are good.

The coal is undercut by hand. Very little work has been done in this mine during the past year.

S. A. LEWIS, *Supt.*

DRY BRANCH COAL COMPANY.

DRY BRANCH, W. VA.

No. 623. *Gas or No. 1 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Peerless Seam, which is forty inches thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Thayer fan is good. This mine was operated only a few days during the year and is now idle.

L. D. BURNS, *Supt.*

DRY BRANCH COAL COMPANY.

DRY BRANCH, W. VA.

No. 623. *No. 2 or Coalburg Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is from five to six feet thick including a middle band of slate, on the room and pillar system with double entries.

The ventilation produced by a seven and four-foot fans is good. The roof is not good and requires very careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled by electric motors and mules. This mine is capable of producing 400 tons per day.

L. D. BURNS, *Supt.*

C. F. SLACK, *Mine Foreman.*

DRY BRANCH COAL COMPANY.

DRY BRANCH, W. VA.

No. 624. *Belmont or No. 3 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Belmont Seam, which is from three to four feet thick, on the room and pillar system with double entries.

The ventilation produced by two fans has at all times been found good. In some parts of the mine the roof is not good and requires very careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled by mules and electric motors and handled over the same tippie as the output from the Coalburg mine. This mine is capable of producing 150 tons per day.

L. D. BURNS, *Supt.*

C. F. SLACK, *Mine Foreman.*

COALBURG COLLIERY COMPANY.

No. 625. *Ronda Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is from five to seven feet thick, on the room and pillar system with double entries.

The ventilation produced by a six-foot Thayer fan is generally good. In some parts of the mine the roof is not good and requires very close timbering to keep it safe. The drainage is good. Concrete stoppings have been built along the main entry during the past year which is a great improvement over the old ones.

The coal is undercut with electric chain machines and hauled by mules and electric motors. This mine is capable of producing 800 tons per day.

L. D. BURNS, *Supt.*

S. M. SMITH, *Mine Foreman.*

PERSINGER COAL COMPANY.

MIAMI, W. VA.

No. 626. *Wilton Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Cedar Grove Seam, which is from thirty to forty-five inches thick, on the room and pillar system with double entries.

This mine consists of several openings and the ventilation produced by a fan and from natural causes has not at all times been found good. In some parts of the mine drainage is not good. Roof is good..

The coal in this mine is undercut with electric chain machines and by hand with picks and some is shot from the solid but where shooting from the solid is practiced it is very wet. This mine is capable of producing 100 tons per day.

A. W. PERSINGER, *Supt.*

J. C. PRICE, *Mine Foreman.*

WYATT COAL COMPANY.

SHARON, W. VA.

No. 627. *No. 1 or North Horton Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is six feet thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Thayer fan is generally good. In some parts of the mine the roof is not good. Drainage is good.

The coal is undercut with electric chain machines and the mine is capable of producing 500 tons per day.

DAVE EVANDALL, *Supt.*

A. E. THOMAS, *Mine Foreman.*

A. W. LAING, *Supt.*

C. R. LARABEE, *Mine Foreman.*

ED. GLOVER, *Mine Foreman.*

WYATT COAL COMPANY.

SHARON, W. VA.

No. 628. *South Horton No. 2 Mine*.—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is four and one-half feet thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Thayer fan is good. Roof and drainage are good.

The coal is undercut with electric chain machines and the mine is capable of producing 500 tons per day.

DAVE EVANDALL, *Supt.*

A. E. THOMAS, *Mine Foreman.*

A. W. LAING, *Supt.*

R. E. THOMPSON, *Mine Foreman.*

WYATT COAL COMPANY.

EVENTON, W. VA.

General Office, Sharon, W. fa.

No. 629. *Oakley Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Lewiston Seam, which is four feet thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Thayer fan is generally good. The roof and drainage are good.

The coal is undercut with electric chain machines and by hand with picks and the mine is capable of producing 350 tons per day.

DAVE EVANDALL, *Supt.*

R. A. CUNNINGHAM, *Mine Foreman.*

A. W. LAING, *Supt.*

ED. HAYWOOD, *Mine Foreman.*

WYATT COAL COMPANY.

LAING, W. VA.

General Office, Sharon, W. fa.

No. 630. *Berlin Mine.*—This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam which is from five to six feet thick including in some places a middle band of slate, on the room and pillar system with double entries.

The ventilation produced by a nine-foot Stine fan is good. The roof is good except in a few places where there is a bad draw slate. Drainage is good except in some haulways.

The coal is undercut with electric chain machines and by hand with picks and the mine is capable of producing 500 tons per day.

JAMES LAING, *Supt.*

W. A. GILCHRIST, *Mine Foreman.*

SOUTHERN COLLIERIES COMPANY.

ESKDALE, W. VA.

No. 631. *Nos. 1 and 2 Mines.*—These mines are located on the Cabin Creek branch of the C. & O. R. R., are drift openings operating the No. 2 Gas Seam, on the room and pillar system with double entries.

These mines were operated last year by Paul L. James for the La Mont Mining Company, but have been idle during this year.

C. S. WHITE, JR., *Supt.*

SOUTHERN COLLIERIES COMPANY.

ESKDALE, W. VA.

No. 631. *No. c Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Lewiston Seam which is from five to six feet thick, on the room and pillar system with double entries. This

mine was operated last year by Paul L. James, receiver for the La Mont Mining Company.

The ventilation produced by an eight-foot Thayer fan is good. Roof is good. The roof is good after the thick draw slate comes down.

The coal is undercut with electric chain machines and hauled by mules, electric motors and a tail rope. This mine is capable of producing 250 tons per day.

C. S. WHITE, JR., *Supt.*

CHARLES PARKER, *Mine Foreman.*

HOLLY & STEPHENSON COAL AND COKE COMPANY.

ESKDALE, W. VA.

No. 632. *Stephenson No. 2 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from four to five feet thick, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Thayer fan is good. Roof is good. In some parts of this mine it is very dry and dusty which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and by hand with picks and hauled by mules and electric motors to the tippie. The mine is capable of producing 500 tons per day.

F. H. McCLUNG, *Supt.*

J. A. WILLIAMS, *Mine Foreman.*

HOLLY & STEPHENSON COAL AND COKE COMPANY.

ESKDALE, W. VA.

No. 633. *Stephenson No. 5 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Lewiston Seam, which is from five to six feet thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Thayer fan is good. In some parts of the mine there is a thick dangerous draw slate which is taken down as the coal comes from under it. Drainage is good.

The coal in this mine is undercut with electric chain machines and the mine is capable of producing 400 tons per day.

F. H. McCLUNG, *Supt.*

D. WALTER WILLIAMS, *Mine Foreman.*

WAKE FOREST MINING COMPANY.

WAKE FOREST, W. VA.

No. 634. *Wake Forest Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from five to six feet thick including in some parts of the mine a thick band of middle slate, on the room and pillar system with double entries.

The ventilation produced by a five-foot and six-foot fans is good. The roof is good except in a few places in the old drift. Drainage is good and in some parts of the mine it is very dry which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and the mine is capable of producing 600 tons per day.

J. C. GRAYMES, *Supt.*

JESSE GARDNER, *Mine Foreman.*

CARBON COAL COMPANY.

NABOB, W. VA.

General Office, Carbon, W. Va.

No. 635. *North Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from five to six feet thick including in some parts of the mine a thick middle band of slate, on the room and pillar system with double entries, and a large part of the work in this mine consists of drawing pillars.

The ventilation produced by a seven-foot Stine fan is good. In some parts of the mine a large quantity of water is generated and drainage is not the best. The roof is good.

The coal in this mine is undercut with electric chain machines and by hand with picks and the mine is capable of producing 200 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*C. A. PIERCE, *Supt.*HENRY CLENDENIN, *Mine Foreman.*

CARBON COAL COMPANY.

CARBON, W. VA.

No. 636. *South Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from four to six feet thick and in some parts of the mine includes a middle slate, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Stine fan is good. In some parts of the mine the roof is not good. Drainage is generally good.

The coal is undercut with electric chain machines and by hand with picks and hauled with mules and electric motors. The mine is capable of producing 450 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*C. A. PIERCE, *Supt.*H. L. PATTERSON, *and*S. L. THOMAS, *Mine Foremen.*

CARBON COAL COMPANY.

CARBON, W. VA.

No. 637. *Carbon Splint Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is from five to six feet thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Stein fan is good. The roof is good, except a thin sealy draw slate. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors. This mine is capable of producing 650 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*C. A. PIERCE, *Supt.*S. L. THOMAS *and*C. R. LARIBEE, *Mine Foremen.*

CARBON COAL COMPANY.

NABOB, W. VA.

General Office, Carbon, W. Va.

No. 638. *No. 4 Low Sulphur Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 1 Eagle Seam, which is four feet six inches thick. The blocks are now ready for the retreating long wall system which will be commenced just as soon as a new tippie is completed.

The ventilation produced by a seven-foot Stine fan is good. The roof is good. Owing to the large quantity of water liberated in this mine the drainage is not good.

The coal is undercut with electric chain machines and hauled to the tippie by mules. This mine is capable of producing 150 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*C. A. PIERCE, *Supt.*HENRY CLENDENIN, *Mine Foreman.**WEST VIRGINIA COLLIERY COMPANY.*

WEVACO, W. VA.

General Office, Carbon, W. Va.

No. 639. *No. 1 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is six feet thick, including in some parts of the mine a thick middle band of slate, on the room and pillar system with double entries.

The ventilation produced by a ten-foot Stine fan has generally been found good. In some parts of the mine the roof is not good and it requires careful timbering to keep it safe. In the left side of the mine it is very dry and dusty which necessitates watering to allay the dust.

The coal is undercut with chain machines and by hand with picks and the mine is capable of producing 600 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*K. D. QUARRIER, *Supt.*GEORGE BUCKLEY *Mine Foreman.**WEST VIRGINIA COLLIERY COMPANY.*

WEVACO, W. VA.

General Office, Carbon, W. Va.

No. 640. *No. 2 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is five feet and four inches thick, on the room and pillar system with double entries.

The ventilation is produced by a furnace and natural causes has not been found good at all times. The roof is very bad and requires careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and by hand with picks and the mine is capable of producing 250 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*K. D. QUARRIER, *Supt.*WM. COINER, *Mine Foreman.*

WEST VIRGINIA COLLIERY COMPANY.

WEVACO, W. VA.

General Office, Carbon, W. Va.

No. 641. *No. 3 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is from six to seven and one half feet thick, on the room and pillar system with double entries.

The ventilation produced by two seven-foot Stine fans and from natural causes is generally good. Roof is good except in Galigo where there is some draw slate which must be taken down as the coal comes from under it. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors and mules. The mine is capable of producing 700 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*K. D. QUARRIER, *Supt.*C. L. PETTY, *Mine Foreman.**WEST VIRGINIA COLLIERY COMPANY.*

WEVACO, W. VA.

General Office, Carbon, W. Va.

No. 642. *No. 4 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from four to six feet thick, on the room and pillar system with double and triple entries and in a part of the mine the blocks are now ready to begin work on the retreating long well system.

The ventilation produced by two seven-foot Stine fans is good. In some parts of the mine the roof is not good and requires very careful timbering to keep it safe. Drainage is good, except in a few haulways.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors and mules. This mine is capable of producing 500 tons per day.

C. A. CABELL, *Gen. Mgr.*D. H. MORTON, *Gen. Supt.*K. D. QUARRIER, *Supt.*CHARLES FRASER, *Mine Foreman.**REPUBLIC COAL COMPANY.*

CARBON, W. VA.

No. 643. *No. 1 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from five to six feet thick, including in some parts of the mine a middle slate. This mine has been operated on the room and pillar system with double entries but the blocks are now ready for the retreating long wall system.

The ventilation produced by a seven-foot Stine fan is good. The roof is bad and requires very careful timbering to keep it safe. The mine is dry and in some parts very dusty which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and hauled to the tippie with

electric motors and mules. This mine is capable of producing 400 tons per day.

C. A. CABELL, *Gen. Mgr.*

D. H. MORTON, *Gen. Supt.*

M. W. MURPHY, *Supt.*

C. A. HUGHES, *Mine Foreman.*

REPUBLIC COAL COMPANY.

CARBON, W. VA.

No. 644. *No. 2 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced by a seven-foot Stine fan is good. The roof is good. The mine is dry throughout which necessitates watering to allay the dust. The work in this mine nearly all consists of pillar drawing and the coal is undercut with electric chain machines and by hand with picks and is hauled to the tippie with electric motors and mules.

This mine is capable of producing 250 tons per day.

C. A. CABELL, *Gen. Mgr.*

D. H. MORTON, *Gen. Supt.*

M. W. MURPHY, *Supt.*

S. E. THOMAS, *Mine Foreman.*

REPUBLIC COAL COMPANY.

CARBON, W. VA.

No. 645. *No. 3 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from four to five feet thick, on the room and pillar system with double entries, but the mine is now being developed for the retreating long wall system.

The ventilation produced by a seven-foot Stine fan is good. The roof is good. This mine is very dry and some parts dusty which necessitates watering quite often to allay the dust.

The coal is undercut with electric chain machines and by hand with picks and hauled with electric motors and mules. This mine is capable of producing 325 tons per day.

C. A. CABELL, *Gen. Mgr.*

D. H. MORTON, *Gen. Supt.*

M. W. MURPHY, *Supt.*

JOHN SHAWHAN *and*

C. E. FOSTER, *Mine Foremen.*

REPUBLIC COAL COMPANY.

CARBON, W. VA.

No. 645. *No. 4 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from five to six feet thick including a middle slate, on the room and pillar system with double entries.

The ventilation produced by a furnace is good for the number of men employed inside the mine. The roof and drainage is generally good.

The coal is undercut with electric chain machines and hauled with mules. The mine is capable of producing 100 tons per day.

This mine has been idle for a short time.

C. A. CABELL, *Gen. Mgr.*

D. H. MORTON, *Gen. Supt.*

M. W. MURPHY, *Supt.*

H. L. PATTERSON, *Mine Foreman.*

REPUBLIC COAL COMPANY.

CARBON, W. VA.

No. 646. *No. 5 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is five feet thick, on the room and pillar system with double and triple entries.

The ventilation produced by an eight-foot Thayer fan is good. The roof is not good and drawslate must be taken down or carefully timbered to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors. The mine is capable of producing 300 tons per day.

C. A. CABELL, *Gen. Mgr.*

D. H. MORTON, *Gen. Supt.*

M. W. MURPHY, *Supt.*

OWEN MEADOWS, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

WARRIOR, W. VA.

General Office, Kayford, W. Va.

No. 647. *Caledonia Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is four feet thick, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Thayer fan is good. Overlying this mine is a very treacherous draw slate which if not properly timbered or taken down is not safe to work under. Drainage is good.

The coal is undercut with electric chain machines and hauled to the tippie with mules. The mine is capable of producing 150 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

V. A. MILLER, *Supt.*

R. L. CAVINESS, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

OHLEY, W. VA.

General Office, Kayford, W. Va.

No. 648. *Dairis Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Lewiston Seam, which is five feet three inches thick, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Thayer fan is good. In some parts of the mine the roof is not good and requires careful timbering to keep it safe. Drainage is good, except on the main haulway where it is wet and muddy.

The coal in this mine is undercut with electric chain machines and hauled by electric motors and mules. The mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

HARRY DAVIS, *Supt. and Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

LEEWOOD, W. VA.

General Office, Kayford, W. Va.

No. 649. *Holly Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operatin the No. 2 Gas Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Thayer fan is good. In some partsof the mine a very drangerous draw slate overlies the coal which must be properly timbered or taken down to keep the working places safe. Drainage is good.

The coal is undercut with air punching machines and hauled with mules and tail rope. The mine is capable of producing 450 tons per day.

IRA F. DAVIS, *Gen. Mgr.*V. A. MILLER, *Supt.*D. H. PHELPS, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

WAKE FOREST, W. VA.

General Office, Kayford, W. Va.

No. 650. *Quarrier Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from five to six feet thick, on the room and pillar system with dnoble entries.

The ventilation produced by an eight foot Thayer fan is good. In some parts of the mine the roof is not good, which requires careful timbering to keep it safe. The mine is dry throughout which necessitates watering to allay the dust.

The coal is undercut with air punching machines and hauled with mules and tail rope. This mine is capable of producing 600 tons per day.

IRA F. DAVIS, *Gen. Mgr.*V. A. MILLER, *Supt.*J. W. GAY, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

DECOTA, W. VA.

General Office, Kayford, W. Va.

No. 651. *Belclare Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is four feet ten inches thick, on the room and pillar system with double entries.

The ventilation prodeed by an eight-foot Thayer fan and from natural causes in No. 1 Drift is generally good. The roof is good, except in a small part of No. 2 Drift. The mine is dry and especially in No. 1 Drift which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and by hand with picks and hauled with electric motors and mules. This mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*A. P. SHERER, *Supt.*H. O. YOUNG, *Mine Forman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

DECOTA, W. VA.

General Office, Kayford, W. Va.

No. 652. *Ruby Mine.* This mine is located on the Cabin Creek branch of

the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced by a four-foot Stine fan is good. The roof is bad and a stratum of draw slate must be taken down as the coal is taken from under it and then carefully timbered. Drainage is good.

The coal is undercut with electric chain machines and hauled with mules. This mine is capable of producing 250 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

A. P. SHERER, *Supt.*

WM. H. KIRBY, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

WEVACO, W. VA.

General Office, Kayford, W. Va.

No. 653. *United Splint Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is from five to six feet thick, on the room and pillar system with double entries

The ventilation produced by an eight-foot Thayer fan is good. The roof is not good and in some of the working places a heavy draw slate must be taken down as the coal comes under it. Drainage is good.

The coal is undercut with electric chain machines and the mine is capable of producing 450 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. G. HOWELL, *Supt.*

CHARLES MONTGOMERY, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

WEVACO, W. VA.

General Office, Kayford, W. Va.

No. 654. *United Gas Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam which is five feet two inches thick, on the room and pillar system with double and triple entries.

The ventilation produced by an eight-foot Stine fan is good. Drainage is good. The roof is not good and in some parts of the mine there seems to be no limit to the thickness of the slate and rock that comes down.

The coal is undercut with electric chain machines and by hand with picks and hauled with mules and motors. The mine is capable of producing 800 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. G. HOWELL, *Supt.*

J. E. SHAFER, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

WARRIOR, W. VA.

General Office, Kayford, W. Va.

No. 655. *Red Warrior Mine.*—This mine is located on the Cabin Creek Branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas seam which is four feet eight inches thick, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Thayer fan is usually found good.

The roof in this mine is not good and requires very careful timbering to keep it safe. The drainage is good.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors and mules. The mine is capable of producing 200 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

V. A. MILLER, *Supt.*

R. L. CAVINESS, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

LEEWOOD, W. VA.

General Office, Kayford, W. Va.

No. 656. *Cherokee Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam which is five feet six inches thick, on the room and pillar system. The ventilation produced by a six-foot Thayer fan is good.

In some parts of the mine there is a draw slate which must be taken down or very carefully timbered o keep it safe. Drainage is good.

The coal in this mine is undercut with electric chain machines and hauled with electric motors and mules. This mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

V. A. MILLER, *Supt.*

T. G. HALL *and*

J. C. SLEGH, *Mine Foremen.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

ACME, W. VA.

General Office, Kayford, W. Va.

No. 657. *Buckeye Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam which is five feet six inches thick, on the room and pillar system with double entries. The ventilation produced by a four-foot Thayer fan and conducted by concrete stoppings along the main entries is good. The roof is not good which requires very careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors and mules. This mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

WM. A. OTEY, *Supt.*

JOHN EADS, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

ACME, W. VA.

General Office, Kayford, W. Va.

No. 658. *Empire Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is four feet ten inches thick, on the room and pillar system with double entries.

The ventilation produced by an eight-foot Crawford and McCrimmon fan and conducted by concrete and wood stoppings is good. The roof in this mine is good, except a few places along the main haulway. Drainage is good and

along the haulway it is dry and dusty which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and hauled with electric motors and mules. The mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

WM. A. OTEY, *Supt.*

WM. BATTON, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

ACME, W. VA.

General Office, Kayford, W. Va.

No. 659. *Black Tulip Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is five feet six inches thick, on the room and pillar system with double entries.

The ventilation produced by a five-foot Thayer fan is good. The roof is not good and requires care timbering to keep it safe. Owing to the dip of the coal strata and quantity of water liberated in the mine a few of the working places are wet.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors and mules. The mine is capable of producing 350 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

WM. A. OTEY, *Supt.*

FRANK SHERER, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

ACME, W. VA.

General Office, Kayford, W. Va.

No. 660. *Keystone Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is from four to five feet ten inches thick, on the room and pillar system with double entries.

The ventilation produced by a ten-foot Crawford and McCrimmon fan is good. This is one of the oldest mines in this field and along the haulways are deposits of dust which accumulated several years ago, but in the workings it is moist. In some parts of the mine the roof is not good.

The coal is undercut by electric chain machines and by hand with picks and hauled with electric motors and mules. This mine is capable of producing 350 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

WM. A. OTEY, *Supt.*

CHAP CASH, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

ACME, W. VA.

General Office, Kayford, W. Va.

No. 661. *Acme Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced by a six-foot Thayer fan is usually found good. The roof is good after a draw slate, which as a rule comes down with the coal. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors and mules. This mine is capable of producing 250 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

WM. A. OTEY, *Supt.*

JOHN DOWER, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 662. *Shamrock Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is six feet thick, on the room and pillar system with double and triple entries.

The ventilation produced by a ten-foot Stine fan and conducted by concrete stoppings and over-casts is good. The roof is good except in a small part of the North and Fourth South entries. In the South part of the mine it is very dry and dusty which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors and mules. This mine is capable of producing 900 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

JOHN ARMANTROUT, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 663. *Raccoon No. 1 Gas Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is five feet four inches thick, on the room and pillar system with double and triple entries.

The ventilation produced by a ten-foot Thayer fan is good. In some parts of the mine a large quantity of water is liberated, which keeps some of the working places very wet. In one side of this mine the roof is not good and must be kept well timbered to keep it safe. Very small gas feeders have been found in the floor of this mine but the ventilation is such that they are kept harmless.

The coal in this mine is undercut with electric chain machines and hauled to the tippie with electric motors and mules. The mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

JAS. A. COLE, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 663. *Raccoon No. 2 East Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is six feet six inches thick over the same tippie as Raccoon No. 2 West Mine, on the room and pillar system with double entries.

The ventilation produced from natural causes has been fairly good, but a fan is now on the ground and will be installed as soon as possible. Drainage is good. In some parts of the mine the roof is not good but is expected to get much better as the mine goes farther under cover.

The coal is undercut with electric chain machines and hauled with electric motors and mules. The mine is capable of producing 300 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

GEORGE HOGUE, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 664. *Raccoon No. 2 West Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is six feet six inches thick, on the room and pillar system with double and triple entries.

The ventilation produced by a six-foot Stine fan is good. In some parts of the mine the roof is not good and requires very careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors and mules. The mine is capable of producing 450 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

J. W. HURT, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 665. *Kayford No. 1 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is six feet thick, on the room and pillar system with double and triple entries.

The ventilation produced by a ten-foot Thayer fan and conducted by some concrete stoppings and overcasts in good. At different times very small gas feeders coming from the floor have been found in this mine but the ventilation is such as to render them perfectly harmless. The roof is generally good. In some parts of the mine it is very dry and dusty which necessitates watering to allay the dust.

The coal in this mine is undercut with electric chain machines and by hand with picks and hauled to the tippie with electric motors and mules. This mine is capable of producing 900 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

MOREY DARBY, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 665. *Kayford No. 2 Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is now a drift opening operating the No. 2 Gas Seam, which is five feet four inches thick, on the room and pillar system with double entries.

The ventilation produced by a ten-foot Thayer fan is good. In some parts of the mine the roof is not good and requires careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled to the tippie

with electric motors and mules. The mine is capable of producing 400 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

MOREY DARBY *and*

DAVID HOWELL, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 666. *Thistle Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is five feet thick, on the room and pillar system with double and triple entries.

The ventilation produced by a ten-foot Thayer fan conducted by some concrete stoppings and over-casts is good. Roof is good. The mine is very dry and in some parts is dusty which necessitates watering to allay the dust.

The coal is undercut with electric chain machines and by hand with picks and hauled to the tippie with electric motors and mules. The mine is capable of producing 500 tons per day.

IRA F. DAVIS, *Gen. Mgr.*

H. L. FISHER, *Supt.*

P. L. ROSE, *Mine Foreman.*

CABIN CREEK CONSOLIDATED COAL COMPANY.

KAYFORD, W. VA.

No. 667. *Rose Mine.* This mine is located on the Cabin Creek branch of the C. & O. R. R., is a drift opening operating the Coalburg Seam, which is six feet four inches thick, on the room and pillar system with double entries.

The ventilation produced by a six-foot Stine fan is good. The roof is not good and requires very careful timbering to keep it safe. Drainage is good.

The coal is undercut with electric chain machines and hauled with electric motors and mules. The mine is capable of producing 700 tons per day.

H. L. FISHER, *Supt.*

SAM. G. HOGUE, *Mine Foreman.*

IRA F. DAVIS, *Gen. Mgr.*

LOGAN COUNTY.

COAL VALLEY MINING COMPANY.

CLOTHIER, W. VA.

General Office, Athens Ohio.

No. 668. *Sylvia Mine.* This mine is located at Clothier on the Coal River branch of the C. & O. R. R., and Spruce Fork of Coal River, is a drift opening operating the No. 2 Gas Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced by two five-foot Stine fans is good. The roof is very bad and consists of a very treacherous draw slate. Drainage is good.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors. This mine is capable of producing 400 tons per day.

A. E. MOORE, *Pres.*

D. C. THOMAS, *Supt.*

THOMAS PARFITT, *Mine Foreman.*

COAL RIVER COAL & COKE COMPANY.

CLOTHIER, W. VA.

No. 669. *Dobra Mine*. This mine is located on the Coal River branch of the C. & O. R. R., and Spruce Fork of Coal River; is a drift opening operating the No. 2 Gas Seam, which is five feet thick, on the room and pillar system with double and triple entries.

The ventilation produced by a fan is good. The roof is good after a heavy draw slate comes down. Drainage is good.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors. The mine is capable of producing 275 tons per day.

C. W. SNYDER, *Supt.*G. W. LAX, *Supt.*E. S. SPENCER, *Mine Foreman*.

SPRUCE BEND COAL COMPANY.

BEND, W. VA.

No. 670. *No. 1 Mine*. This mine is located on the Spruce Fork of Coal River and the Coal River branch of the C. & O. R. R., is a drift opening operating the No. 2 Gas Seam, which is five feet thick, on the room and pillar system with double entries.

The ventilation produced from natural causes is good. Drainage is good. The roof is good after thick draw slate comes down.

The coal is undercut with electric chain machines and hauled to the tippie with electric motors and mules. This mine is capable of producing 200 tons per day.

SAMUEL BUTLER, *Supt.*W. B. PARKS, *Mine Foreman*.

MIFFLIN COAL COMPANY.

General Office, Clothier, W. Va.

No. 671. *No. 1 Mine.—Drift.—No. 2 Gas Seam*. This is a new mine just begun shipping coal in November, 1911 and is located on the Coal River extension of the C. & O. Railway, about 55 miles from St. Albans. The ventilation is produced by two fans, one 5 feet and the other 7 feet, which gives good results. The coal is mined by electric machines. Roof, timbering and drainage good.

R. B. WHITMAN, *Superintendent*.CHAS. WALTON, *Mine Foreman*.

BLACK HAWK COAL COMPANY.

BIG CREEK, W. VA.

General Office of Company, Detroit Mich.

No. 672. *Black Hawk Mine*. This is a drift mine operating in the No. 2 Gas seam of coal, averaging about $4\frac{1}{2}$ feet in thickness with a good roof. Mining is done by pick and the coal hauled by mules. The ventilation, produced by a furnace, is good. Doors and stoppings in good condition. Drainage is good. Second opening meets lawful requirements and the mine law in other respects is being complied with.

J. L. DAWSON, *Supt.*J. L. DAWSON, *Mine Foreman*.

STONE BRANCH COAL CO.

Post Office and general office of Company, Stone Branch, W. Va.

No. 673. *Stone Branch Mine.* This is a drift mine, located on the Guyan River, operating the No. 2 Gas seam of coal which averages about five feet in thickness with a roof a good sand stone. Sufficient ventilation is produced by a fan and furnace and distributed to all parts of the mine. The coal is undercut with electric chain machines and hauled by mules and electric motors. Doors and stoppings are in good condition. Drainage is good. Some parts of the mine are dry and must be kept damp by artificial means. Explosive gas is not generated. Second openings meet lawful requirements and in other respects the mine law is complied with.

C. W. JONES, *Gen Mgr.*

W. G. HUNTER, *C. Mine Foreman.*

GUYANDOTTE COAL CO.

KITCHEN, W. VA

General Office of Company, Branchfield, W. Va.

No. 674. *Guyandotte Mine.* This is a drift mine, located on the Gunay River, operating the No. 2 Gas seam of coal which averages four feet in thickness with a good sand stone roof. Ventilation, produced by a furnace, has not at all times, been found satisfactory. Doors and stoppings are in good condition. Drainage is good and the mine generally damp throughout. The coal is undercut with compressed air punching machines and hauled by mules. Explosive gas is not found in the mine. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand.

JAS. R. BRANCH, *Pres. & Gen. Mgr.*

W. J. SMITH, *Supt. & Mine Foreman.*

E. R. JOHNSON COAL MINING CO.

P. O. and general office of Company, Hughey, W. Va.

No. 675. *No. 1 Mine.* This is a drift mine, located near Logan, operating the Powelton seam of coal which averages at this place about three feet and ten inches, with a good roof. The ventilation, produced by a 10 foot fan is very good. Doors and stoppings are in good condition. Drainage is good and the mine in a general damp condition. No explosive gas is liberated. The coal is undercut with electric chain machine and hauled with electric motors. The second opening is in lawful condition and everything necessary to comply with the mine law is kept on hand.

J. H. SLUSS, *Pres. & Gen Mgr.*

JNO. EARLY, *Mine Foreman.*

E. R. JOHNSON COAL MINING CO.

P. O. and general office of Company, Hughey, W. Va.

No. 675. *No. 2 Mine.* This is a drift mine, located near Logan, operating what is supposed to be the No. 2 Gas seam which averages in this mine about four feet, with a fairly good floor. Good ventilation is furnished to all working places with a seven foot fan. Doors and stoppings are in good condition. Drainage is good and the mine in a generally damp condition. Explosive gas is not liberated. The coal is undercut with electric chain machines and hauled by electric motors. The second opening meets lawful requirements and every thing is kept on hand at the mine to comply with the law.

J. H. SLUSS, *Pres. & Gen Mgr.*

JNO. EARLY, *Mine Foreman.*

DRAPER COAL & COKE CO.

P. O. and General Office of Company, Logan, W. Va.

No. 676. *Draper Mine.* This is a drift mine, located at Logan, operating the Powellton seam of coal which averages four feet in thickness with a fairly good roof. Sufficient ventilation is produced by a 12 foot fan, but on my last inspection it was not properly distributed to all parts of the mine. Doors and stoppings were not found in satisfactory condition. Drainage is good and some sections of the mine during the winter months must be kept damp by artificial means. The coal is undercut with electric chain machines and hauled by mules and electric motors. Explosive gas is not liberated. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand.

The present management is:

S. A. DRAPER, *Gen. Mgr.*

E. M. STEVENS, *C. Mine Foreman.*

H. T. WILSON COAL CO.

LOGAN, W. VA.

General Office of Company, Detroit Mich.

No. 677. *Wilson Mine.* This is a drift mine, located at Logan, operating the Powellton seam of coal which is about 4 feet in average thickness with a sandy slate floor that requires careful timbering. Good ventilation is produced by a 10 foot disc fan. Doors and stoppings are in good condition. The mine is dry throughout and has to be dampened by artificial means during the winter months. Explosive gas is not generated. The coal is undercut with electric chain machines and hauled by mules and electric motors. The second openings meet the lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

H. T. WILSON, *Gen. Mgr.*

J. G. BOLTON, *Supt & Mine Foreman.*

FORT BRANCH COAL CO.

FORT BRANCH, W. VA.

General Office of Company, Richmond, Va.

No. 678. *Fort Branch Mine.* This is a drift mine, located on Dingess Run, three miles above Logan, operating the No. 2 Gas seam of coal which is 5 feet in thickness with a good sandstone roof. Ventilation, produced by an 8 foot fan, is good. Doors and stoppings are in good condition. Drainage is good and the mine is damp throughout. No explosive gas is liberated. The coal is undercut with compressed air punching machines and hauled by mules and a gasoline mine motor. This gasoline motor works in a return air current that is not afterwards passed to any of the working places. The fumes given off from it while running are barely perceptible in a current of air over 5000 cubic feet per minute. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

GEO. M. REID, *Gen. Mgr.*

JAMES SOMERS, *Supt.*

ROBT. GEE, *Mine Foreman.*

PRICE COAL CO.

ETHEL, W. VA.

No. 679. *Wanda Mine*. This is a drift mine, located five miles above Logan on Dingess Run, operating the No. 2 Gas seam of coal which is five feet in thickness with a good sandstone roof. Ventilation, produced by an 8 foot fan, is good. Doors and stoppings are in good condition. The mine is dry and some sections require watering during the cold season of the year to keep it damp. No explosive gas is liberated. The coal is undercut with compressed air punching machines and hauled by mules. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

J. J. ROSS, *Vice-Pres.*C. D. HYLTON, *Mine Foreman.*B. L. FLYNN, *Gen. Supt.**REX COAL & COKE CO.*

P. O. and General Office of Company, Ethel, W. Va.

No. 680. *Rex Mine*. This is a drift mine, located on Dingess Run, five miles above Logan, operating the No. 2 Gas seam of coal averaging five feet in thickness with good sandstone roof. Ventilation, produced by an 8 foot fan, is well distributed to all parts of the mine. Doors and stoppings are in good condition. Drainage is good and except for a few small sections the mine is generally damp. Explosive gas is not liberated. The coal is undercut with compressed air punching machines and hauled by mules and electric motor. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

T. O. DEAUMER, *Gen. Mgr.*G. H. BOLEN, *Mine Foreman.**LOGAN COAL CO.*

ETHEL, W. VA.

General Office of Company, Ethel, W. Va.

No. 681. *Logan Mine*. This is drift mine, located on Dingess Run, five miles above Logan, operating the No. 2 Gas seam of coal, averaging five feet in thickness with a good sandstone roof. Ventilation produced by an 8 foot fan, is good. Doors and stoppings are in good condition. Drainage is good and the mine generally damp. Explosive gas is not liberated. The coal is undercut with compressed air punching machines and hauled by mules. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

R. E. CHATFIELD, *Supt.*W. W. BRADLEY, *Mine Foreman.**MANITOBA COAL CO.*

ETHEL, W. VA.

General Office of Company, Fairmont, W. Va.

No. 682. *Manitoba Mine*. This is a drift mine, located on Dingess Run, five miles above Logan, operating the No. 2 Gas seam of coal which averages five feet in thickness with a good roof. Good ventilation for all parts of the mine is produced by a fan. Doors and stoppings are of a temporary character, but, it is the intention of the company to put in permanent ones. Drainage is good and the mine has been found damp. No explosive gas is liberated.

The mine is being developed on a four main entry system. The coal is undercut with electric chain machines and hauled by mules and electric motors. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

J. J. ROSS, *Vice Pres.*

O. I. JENKINS, *Mine Foreman.*

B. L. FLYNN, *Supt.*

ETHEL COAL CO.

ETHEL, W. VA.

General Office of Company, Ethel, W. Va.

No. 683. *No. 1 Mine.*—This is a drift mine, located on Dingess Run, six miles above Logan, operating the No. 2 Gas seam of coal which averages about five feet in thickness with a good sand stone roof. The ventilation, produced by a ten foot fan, is properly split and distributed to all parts of the mine. Doors and stoppings all in good condition. Drainage is good and the mine is damp throughout. No explosive gas has been detected in the mine. The coal is undercut with compressed air punching machines and hauled by mules and a steam locomotive. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

L. EPPERLY, *Gen. Mgr. and Supt.*

I. O. COOPER, *C. Mine Foreman.*

ETHEL COAL CO.

ETHEL, W. VA.

General Office of Company, Ethel, W. Va.

No. 683. *No. 2 Mine.*—This is a drift mine, located on Dingess Run, six miles above Logan, operating the No. 2 Gas seam of coal which averages at this place about six feet in thickness with a good sandstone roof. Ventilation, produced by an eight foot fan, is well distributed throughout the mine by means of good doors and stoppings. Drainage is good and the mine is damp throughout. A very small amount of explosive gas has been found generated. The coal is undercut with electric chain machines and hauled by mules and a steam locomotive. The locomotive operates between the drift mouth and tippie. The second opening meets lawful requirements and the necessary things are kept on hand at the mine to comply with the mine law.

L. EPPERLY, *Mgr. and Supt.*

I. O. COOPER, *C. Mine Foreman.*

MONITOR COAL & COKE CO.

P. O. and General Office of Company, Logan, W. Va.

No. 684. *Monitor Mine.*—This is a drift mine, located on Island Creek, one mile above Logan, operating the No. 2 Gas seam of coal which has in this mine a thickness of six and one half feet with a very good sandstone roof. Ventilation, produced by a ten foot fan, is well split and distributed to every part of the mine. Good permanent stoppings are constructed throughout the mine. Doors are in good condition. Drainage is good. Effective wetting of the mine during the cold season of the year is done by heating the intake air and exhausting steam into it. The haulways and airways of the mine are kept so clean of refuse and dust that it makes the wetting of the mine a very easy matter. The coal is undercut with electric chain machines and hauled by mule

and motors. This is a well planned and operated mine, complying with the law in every way.

J. E. BARLOW, *Gen. Mgr.*

R. B. BARLOW, *Mine Foreman.*

MONITOR COAL & COKE CO.

P. O. and General Office of Company, Logan, W. Va.

No. 684. *Beechwood Mine*.—This is a drift mine, located on main Island Creek, two miles above Logan, operating the No. 2 Gas Seam of coal which averages six feet and six inches with a good sandstone roof. Ventilation, produced by an eight foot fan, is well distributed to all parts of the mine. Doors and stoppings are in very good condition. The mine is naturally dry, but, the dust is kept well dampened by means of steam during the cold season of the year. No explosive gas is liberated. The coal is undercut with electric machines and hauled by mules and electric motors. All refuse and fine coal is loaded out of the entries and airways of the mine. The second opening meets lawful requirements and the mine law complied with in every respect.

J. E. BARLOW, *Gen. Mgr.*

E. F. MCALISTER, *Mine Foreman.*

YUMA COAL & COKE CO.

P. O. and General Office of Company, Logan, W. Va.

No. 685. *Yuma Mine*.—This is a drift mine, located on Main Island Creek two miles above Logan, operating the No. 2 Gas seam of coal which averages six and one half feet with a good sandstone roof. Ventilation, produced by an eight foot fan, is well split and distributed throughout the mine. Doors and stoppings are in good condition. The mine is naturally dry and must be kept damp during the cold season by artificial means. No explosive gas is liberated. The coal is undercut with electric chain machines and hauled by electric motors, no mules are used inside of the mine. All entries and airways are kept in a very clean condition. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

C. K. ROBERTSON, *Gen. Mgr.*

W. L. STEPHENS, *Mine Foreman.*

GAY COAL & COKE CO.

P. O. and General Office of Company, Logan, W. Va.

No. 686. *Gay Mine*.—This is a drift mine, located near Logan on Island Creek, operating the No. 2 Gas seam of coal which averages five feet and six inches with a good sandstone roof. Ventilation, produced by a fan, well distributed throughout the mine, brattice cloth being used to conduct it to the face of the advanced workings. Doors and stoppings are in good condition. Drainage is good and the mine is naturally damp throughout. No explosive gas is liberated. The coal is undercut with electric chain machines and hauled by mules to an outside track from where it is hauled by a steam locomotive to the tippie. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand.

H. S. GAY, *Gen. Mgr.*

FRED KELLERMAN, *Mine Foreman.*

SHAMROCK COAL CO.

General Office of Company, Welch, W. Va.

No. 687. *Litz Mine*.—This is a drift mine, located on Island Creek, two miles above Logan, operating the No. 2 Gas seam of coal which averages six feet in thickness with a good sandstone roof. Ventilation, produced by a fan, is very good. Doors and stoppings are in good condition. Drainage is good and the mine has always been found in a damp condition. Explosive gas is not liberated. The coal is undercut with electric chain machines and hauled by mules. The second opening meets lawful requirement and everything necessary to comply with the mine law is kept on hand at the mine.

A. Z. LITZ, *Gen. Mgr.*

ELI ROBERTS, *Mine Foreman.*

C. W. JONES, *C. Supt.*

CORA COAL & COKE CO.

P. O. and General Office of Company, Cora, W. Va.

No. 688. *Cora Mine*.—This is a drift mine, located on Island Creek, two miles above Logan, operating the No. 2 Gas seam of coal which averages six feet in thickness with a good sandstone roof. Ventilation, produced by a fan, is well split and distributed throughout the mine. Doors and stoppings are in good condition. Drainage is good and the mine has always been found in a damp condition. The coal is undercut with electric chain machines and hauled by electric motors, no mules are used in the mine. Explosive gas is not liberated. The second opening meets lawful requirements and everything necessary to comply with the mine law is kept on hand at the mine.

C. W. JONES, *C. Gen. Mgr.*

F. S. RICHARDS, *Mine Foreman.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 689. *Island Creek No. 1 Mine*.—This is a drift mine, located at Holden, operating the No. 2 Gas seam of coal which averages six feet and six inches, with a good sandstone roof. The developments are on the four entry system. Ventilation, produced by a 13 1-2 x 7 foot fan, is well distributed through 10 separate splits in the mine. Doors and stoppings are in good condition. Drainage is good and every care is taken to keep the mine in a thoroughly damp condition. A very small quantity of explosive gas has been found being liberated. The coal is undercut with electric chain machines and hauled by mules and electric motors. The second opening meets lawful requirements, and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Supt.*

J. W. SNYDER, *C. Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 690. *Island Creek No. 2 Mine*.—This is a drift mine located at Holden operating the No. 2 Gas seam of coal on a four entry system. The average thickness of the seam is six feet six inches with a good sandstone roof. The ventilation, produced by a 13 1-2 x 7 centrifugal fan, is well distributed over twelve separate splits. Doors and stoppings are in good condition. Drainage

is good and the mine has always been kept in a damp condition. Hygrometric reading are frequently taken in all the mines of this company to determine the relative humidity of the atmosphere of the mine. Air analyses are also taken to determine the quality of the air in the mines. No explosive gas is liberated in the mine. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

W. A. JONES, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 691. *Island Creek No. 3 Mine.*—This is a drift mine, located on Whitman's Creek near Holden, operating the No. 2 Gas seam of coal which averages six feet and six inches with a good sandstone roof. Ventilation, produced by a 10 foot fan, is well split and distributed to all parts of the mine. Doors and stoppings are in very good condition. The coal is undercut with electric chain machines and hauled by mules and electric motors. Haulways and entries are kept in a clean condition. The second opening meets lawful requirements and in other respects the mine law is being complied with.

PAUL HARDY, *Gen. Mgr.*

JOE SNODGRASS, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 692. *Island Creek No. 4 Mine.*—This is a drift mine, located on Whitman's Creek, near Holden, operating the No. 2 Gas seam of coal which averages six feet and six inches with a good sandstone roof. Ventilation, produced by a ten foot fan, is well split and distributed to all parts of the mine. Doors and stoppings are in good condition. Drainage is good and the mine in a generally damp condition. A small amount of explosive gas has been found generated at some times. The coal is undercut with a electric chain machine and hauled by mules and electric motors. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

J. F. WHITE, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 693. *Island Creek No. 5 & 6 Mine.*—This is a drift mine, located at Holden, operating the No. 2 Gas seam of coal which averages six feet and six inches in thickness with a good sandstone roof. Ventilation, produced by a 10 foot fan, is well split and distributed throughout the mine. Doors and stoppings are in good condition. Drainage is good and the mine has always been found in a generally damp condition. Explosive gas is not liberated. The coal is undercut with electric chain machines and hauled by mules and

electric motors. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

J. W. HAIR, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 694. *Island Creek No. 7 Mine.*—This is a slope mine, located at Holden, operating the Gas seam of coal which averages seven feet in thickness with a good sandstone roof. The development is on a four entry system. This is a new mine and the coal will be handled over a steel tiple with a capacity of 5000 tons per day. From the way it is equipped and the method of work adopted, it is intended that it shall be one of the largest producing mines in the state. Doors and stoppings are in good condition. Drainage is good. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

G. L. DAVIS, *Mine Foreman.*

F. A. SHARP, *Asst. Supt.*

W. P. LEAR, *Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 695. *Island Creek No. 8 Mine.*—This is a slope mine, located at Holden, operating the No. 2 Gas seam of coal which averages seven feet in thickness with a good sandstone roof. The developments are on the four entry system and the coal will be handled over a steel tiple with a capacity of 5000 tons of coal per day. This is a new mine and from the way it is being equipped and developed, it promises to be one of the largest producers in the state. Doors and stoppings are in good condition. Drainage is good. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

W. G. WHITMAN, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 696. *Island Creek No. 9 Mine.*—This is a drift mine located at Holden, operating the Powellton seam of coal which averages four feet in thickness with a fairly good slate roof. Doors and stoppings are in good condition. Drainage is good and the mine generally damp throughout. No explosive gas is liberated. The coal is undercut with electric chain machines and hauled by electric motors. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

GEO. THOMPSON, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

UNITED STATES COAL & OIL CO.

P. O. and General Office of Company, Holden, W. Va.

No. 696. *Island Creek No. 10 Mine*.—This is a drift mine, located at Holden, operating the No. 2 Gas seam of coal which averages six feet six inches in thickness with a good sandstone roof. Ventilation, produced by a fan, is well distributed to all parts of the mine. Doors and stoppings are in good condition. Drainage is good and the mine is generally damp throughout. No explosive gas is liberated. The coal is undercut with electric chain machines and hauled by mules and electric motors. The second opening meets lawful requirements and the mine law in other respects is being complied with.

PAUL HARDY, *Gen. Mgr.*

GEO. THOMPSON, *Mine Foreman.*

W. P. LEAR, *Supt.*

F. A. SHARP, *Asst. Supt.*

MANBAR COAL COMPANY.

General Office, Manbar, W. Va.

No. 697. *Manbar.—Drift.—Eagle Seam*.—This mine is located on the Guyan Valley Branch of the C. & O. Railway, in Logan county. Ventilation is produced by a furnace and gives fairly good results. Roof, timbering and drainage are good and the coal is undercut by mining machines. This is also a new operation and just begun shipments in March, 1911.

The mine laws are fully complied with.

P. J. RILEY, *Superintendent.*

M. J. RILEY, *Mine Foreman.*

FERNDALE COAL COMPANY.

General Office, Fairmont, W. Va.

No. 698. *Earling Mine.—Drift.—Eagle Seam*.—This mine is located near Ethel, W. Va., on the Guyan Valley Branch of the C. & O. Railway above Logan. The ventilation is produced by one 6 foot Disc fan which gives good results. The coal is mined by electric machines. Roof, timbering and drainage good and the mine laws are fully complied with. This is also a new mine that just begun operating in the year 1911.

A. N. JENKINS, *Superintendent.*

G. E. SANFORD, *Mine Foreman.*

KOHINOOR COAL & COKE COMPANY.

General Office, Craneco, W. Va.

No. 699. *Big Firm.—Drift.—No. 2 Gas Seam*.—This mine is located on the Guyan Valley Branch of the C. & O. Railway and just begun operation in October, 1911. It is ventilated by a 7 foot Disc fan which gives good results. Roof, timbering and drainage good. The mine laws are fully complied with.

T. J. DAVIS, *Superintendent.*

THOMAS EVANS, *Mine Foreman.*

ARACOMA COAL COMPANY.

Mine Office, Logan, W. Va.

General Office, Charleston, W. Va.

No. 699-A. *Mine Nos. 1 & 2.—Drift.—Island Creek Seam*.—This mine is located near the town of Logan, W. Va., and is on the Guyan Valley branch of the C. & O. Railway. It is ventilated by two 7 foot Disc fans, which give

good results. The coal is mined by electric machines. Roof, timbering and drainage good. The mine laws are fully complied with.

This is a new mine and just begun operation in November, 1911, and they have spent considerable money in equipping it in a modern up-to-date manner. It will be one of the best producers in this district.

A. J. KING, *Supt. & Gen. Mgr.*

M. McPARLAND, *Mine Foreman.*

F. E. KING, *Supt.*

McGREGOR COAL COMPANY.

Mine Office, Yolyn, W. Va.

General Office, Charleston, W. Va.

No. 699-B. *McGregor Nos. 1, 2, 3 & 4.—Drifts.—Thacker Seam.*—These mines are located on the Rum Creek extension of the Guyan Valley branch of the C. & O. Railway, in Logan county. These are new mines and at the close of the present fiscal year they have not yet begun shipping coal, but expect to do so by the first of October. They are just opening up and arrangements are being made to install two up-to-date fans, which, according to plans, will ventilate the mines in a first class manner. The roof, timbering and drainage, so far as they have gone in, are good. The mine laws are fully observed.

JOHN LAING, *Pres. & Gen. Mgr.*

A. BOYD, *Supt.*

Charleston, W. Va.

Yolyn, W. Va.

G. L. BAILEY, *Supt. & Mine Foreman.*

Yolyn, W. Va.

SEVENTH DISTRICT.

GENERAL SUMMARY FOR THE SEVENTH MINING DISTRICT FOR
THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,000 lbs.
Fayette..... (Part)	27	6	810	369	81	426	1,786	369	21	390	2,176	1,392,108	14,226
Kanawha..... (Part)	27	5	255	616	128	318	1,317	240	-----	240	1,557	840,637	-----
Totals.....	54	11	1,065	985	209	744	3,103	609	21	630	3,733	2,232,745	14,226

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

Charleston, W. Va., October 5, 1912.

HON. JOHN LAING,

Chief of Department of Mines,

Charleston, West Virginia.

DEAR SIR:—I herewith respectfully submit to you my Annual Report as Inspector of the Seventh District, for the year ending June 30, 1912.

The output of the mines in the Seventh District for the fiscal year ending June 30, 1912, has been materially reduced on account of strikes, caused from labor troubles. Practically all of the mines on the Paint Creek Branch came out on strike on April 1, and are still on strike at this time. Previous to April 1st the mines operated by the Paint Creek Collieries Company had not averaged running over one and a half days per week, per mine, for six months, which was caused by the company being unable to produce coal at the price offered for it on the market.

During the year I have made 168 inspections, and 7 visits; many of those inspections were made in other districts, than my own, and requiring several days, in many cases, to make them. I also assisted in the Bottom Creek and Jed mine explosions, besides assisting in the fighting of two mine fires, one of which was in the Fifth District and the other in the Sixth District, both of which were successfully extinguished without loss of life.

I am pleased to report the general conditions of the mines in the Seventh District very favorable to general safety. A number of the operators during the year have, at my request, installed permanent means of taking care of the

coal dust; some have installed boilers near the drift mouth, for the purpose of generating steam to turn into the air-course, others have fixed pipe lines through the mine, and the general feeling of the operators is to do anything in reason, to keep their mines safe, realizing that the safest way is the cheapest way to operate them.

In the Seventh District, which is composed of 69 mines, located in the counties of Clay, Nicholas, Fayette and Kanawha, during the year, there has been ten fatal and seventeen non-fatal accidents, most of which have been caused from falls of roof. A great many accidents in our State could be avoided, if the miner, himself, would use more caution in the setting of timber, spragging of coal, taking down loose slate, etc. Another thing necessary for the reduction of mine accidents, in my opinion, is to educate the miner thoroughly in the many dangers of coal mining. A great deal has been said toward the enforcing of more rigid discipline in coal mines, as a preventative for mine accidents, and in my opinion discipline is an absolute necessity, but I think it is just as necessary that education precede discipline. In other words, it is hard to discipline an ignorant person, and before mine accidents can be cut down to a minimum, it will be necessary to educate the mine workers (practically) in the many dangers lurking in a coal mine. If this is done and every mine worker takes the necessary precaution to keep himself safe, knowing that loose slate will fall and kill him, and that loose coal will do likewise, as well as obeying the orders of their superiors, as to tampering with locked safety lamps, going into abandoned workings, riding haulage trips, handling explosives, closing trap doors, tampering with machinery, etc., just then, many of the accidents that now happen, will cease.

Another forward step has been taken during the year, by the Chief of the Department, when he issued the ruling that on and after September 15th, 1912, no mines will be permitted to operate in the State of West Virginia, where the relative humidity of the mine is less than 90 per cent and this condition must be kept up continuously throughout the season until April 15th, following.

In my opinion, if this ruling had prevailed, and been enforced, we would not have the 83 men killed in the explosion at the Jed mine, for the gas ignited, and which was the initial point of the explosion, was not enough to more than have burned, or killed a few men adjacent to that section, had it not been for the dusty condition of the entire mine.

Just the reverse of Jed conditions happened at Bottom Creek, where a large body of gas was ignited by the Land Company's engineers, going into two abandoned rooms, with open lights, for the purpose of getting data to map up the work, and the explosion, on account of the damp condition of the entire mine and the relative humidity of the air current nearing the complete saturation point, was confined to the heading where the gas ignited. This high relative humidity was caused by an eight inch exhaust steam line being injected continuously into the intake air current. Had the mine been dusty, West Virginia would have had another terrific mine explosion to her credit; as it was, the explosion was confined to the heading. Therefore, one can readily see the importance of the Chief's ruling.

The examinations that have been held for mine foremen and fire bosses for the last three years, at various central points in the state, has had the desired effect of raising the standard of efficiency to a much higher point, of the men

who are entrusted with the lives of the men who toil in the mines, thereby making them much more competent to dictate to, and take care of the men, who work under their supervision. It has also been part of my work during the year to assist in the holding of all of those examinations and in the grading of the papers.

It has been unnecessary for me to make any prosecutions in the Seventh District during the year, but, while on joint inspections in other districts, it has been necessary to prosecute several officials, such as mine foremen and fire bosses, for violation of the law.

I wish to express, with a feeling of gratitude, my appreciation of your counsel, advice and assistance, which has proven very valuable in the discharge of my duties. I also wish to thank the coal operators, superintendents, mine foreman and miners for their prompt and hearty co-operation in the performance of my duties and a continuation of this co-operation is most heartily desired.

Very respectfully yours,

JAMES MARTIN.

Mine Inspector, Seventh District.

SEVENTH DISTRICT—1912

NEW MINES.

Christian Colliers Co., Powellton Seam, Fayette Co.
St. Clair Collieries Co., No. 5 Splint Seam, Fayette Co.
Long Branch No. One, No. One Gas Seam, Fayette Co.
Long Branch No. Two, No. Two Gas Seam, Fayette Co.
Paint Creek Collieries Co., Crown Hill Seam, Kanawha County.

ABANDONED MINES.

Cresecent No. One, Eagle Seam, Fayette County.
Greenbrier No. 3, Winifrede Seam, Kanawha County.

IDLE DURING THE YEAR.

Gomaa No. 2 Gas, Fayette County.
Eagle No. One, Fayette County.
Columbia No. Two, Fayette County.
Cambria, Fayette County.
Mt. Carmel, Fayette County.
Armenies, Fayette County.
Ganley Consolidated, Fayette County.
National, Nicholas County.
Carter, Clay County.

SOLFAY COLLIERIES CO.

KINGSTON, W. VA.

General Office of Company, Syracuse, N. Y.

No. 701. *Kingston No. 1 A & B Mines.*—These are drift openings located at Kingston on the Milburn branch of the C. & O. R. R., operating the No. 2 Gas seam. Developments is on the double entry and panel system. Ventilation is produced by a fan at each mine, and is good. The mine at the present time produces about 1200 tons daily, all of which is practically produced

from heading work as it is the intention of the company to drive to the back of the lease as soon as possible and get all of the coal on the retreating system. The coal varies in thickness from 5 to 7 feet. Mining is done by electric chain machines and picks. Gasoline motors are used to gather the coal to partings on the inside, from there it is hauled to the outside by electric locomotives. The mine generally is in first class condition, and the mining laws are fully complied with.

J. C. RAWN, *Gen. Mgr.*

C. A. WARDEN, *Mine Foreman.*

A. B. RAWN, *Supt.*

MILBURN COAL & COKE CO.

KEEFERTON, W. VA.

General Office of Company, Pittsburg, Pa.

No. 702. *Milburn No. 1 Mine.*—Is a drift mine located at Keeferton on the Paint Creek branch of the C. & O. R. R. The Eagle seam is operated on the double entry system. The coal seam is 7 feet in thickness, and practically clean. The grades are uniform. Ventilation is produced by a fan driven by electricity. The coal is undercut by picks and electric chain machines, and is gathered to partings on the inside by mules, from there it is hauled to the outside by electric motors. All stoppings on the main entry are constructed of brick. The roof is good in most parts of the mine. The mine generally is in good condition, and the mining laws are fully complied with.

WM. RIGG, *Supt.*

U. K. CUSTARD, *Mine Foreman.*

CHRISTIAN COLLIERY CO.

MAHAN, W. VA.

General Office of Company, Burnwell, W. Va.

No. 703. *Christian No. 1 Mine.*—This is a drift mine located at Mahan on the Paint Creek branch of the C. O. R. R., operating the Eagle seam. The seam varies in thickness from 5 feet to 5 feet and 6 inches and carries a parting in the center about 4 inches in thickness. The coal is gathered and hauled to the outside by electric locomotives. Undercutting is done by electric chain machines. The roof is reasonably good. Ventilation is produced by fan electrically driven. The mining laws are fully complied with.

ALEX HERFORD, *Supt.*

G. T. WALL, *Mine Foreman.*

CHRISTIAN COLLIERY CO.

MAHAN, W. VA.

General Office of Company, Burnwell, W. Va.

No. 703. *Powellton Mine.*—Is a drift opening located at Mahan on the Paint Creek branch of the C. & O. R. R. The coal is of a very hard nature, 4 feet in thickness and clean, undercutting is done by electric chain machines, and hauled by electric locomotive to the tippie. The roof is good. Drainage is good. The mine is new and what development has been done shows the grades very uniform. The Powellton seam is operated. The mining laws are fully complied with.

ALEX HERFORD, *Supt.*

G. T. WALL, *Mine Foreman.*

PAINT CREEK COLLIERIES CO.

P. O. MAHAN, W. VA.

General Office of Company, Scranton, Pa.

No. 704. *Hickory Camp Mine*.—Drift opening located at Hickory Camp on the Paint Creek branch of the C. & O. R. R., operating the Eagle seam. The coal is five feet in thickness but carries a slate parting varying in thickness from six inches to two feet. The roof with a few exceptions is good. Drainage is good. Ventilation is produced by an 8 foot fan and is very good. The coal is gathered from the faces to partings on the various entries by mules and from there to the outside by electric motors, where the mine cars are run down an incline at the bottom of which the coal is dumped into the railroad cars. The mining law is fully complied with.

J. FRANK HALE, *Supt.**GT. KANAWHA COLLIERY CO.*

DONWOOD, W. VA.

General Office of Company, Maedonald, W. Va.

No. 705. *Eureka No. 14 Mine*.—Is a drift opening located at Donwood on the Morris Creek branch of the C. & O. R. R. The No. 5 Splint seam is operated. The mine is on the retreat and is altogether a pillar proposition. The mine is extremely wet throughout and the coal is all shot from the solid. Ventilation is produced by natural means and is only fair. The coal will average 5 feet 6 inches. The roof is not good in many places. The mining laws are reasonably well complied with.

S. A. SCOTT, *Gen. Mgr.*JAS. O. BOYLE, *Mine Foreman.*FRED DIXON, *Supt.**MECCA COLLIERY CO.*

MONTGOMERY, W. VA.

General Office of Company, Eagle, W. Va.

No. 706. *Mecca No. 2 Gas Mine*.—This is a drift mine operating the No. 2 Gas seam, located at Donwood on the Morris Creek branch of the C. & O. R. R. Development is on the double entry system. The coal is four feet four inches in thickness. Ventilation is produced by a 10 foot fan and is good with the exception of some black-damp which is encountered at times from the old workings. The roof is exceptionally good. Drainage is good. The coal is all undercut by electric chain machines, gathered by mules and hauled to the outside by an electric locomotive. The mining laws are fully complied with.

ZACH EVANS, *Supt.*T. E. SUTTON, *Mine Foreman.*H. T. SMARR, *Mgr.**MECCA COLLIERY CO.*

MONTGOMERY, W. VA.

General Office of Company, Eagle, W. Va.

No. 707. *Mecca No. 5 Splint Mine*.—Is a drift opening located at Donwood on the Morris Creek branch of the C. & O. R. R., operating the No. 5 Splint seam. Development is advanced on the double entry system. The roof is bad. Drainage in the past has been bad but is now being improved. The coal is 6 feet in thickness. Ventilation is produced by a 7 foot fan and is reason-

ably good. The coal is undercut by pick and electric chain machines. The stoppings are not good. The mining laws are reasonably well complied with.
H. T. SMARR, *Mgr.* C. E. STERRETT, *Mine Foreman.*
ZACH, *Supt.*

W. R. JOHNSON COAL CO.

CRESENT, W. VA.

General Office of Company, Crescent, W. Va.

No. 708. *Crescent No. 5 Splint Mine.*—This is a drift mine operating the No. 5 Splint seam, located at Crescent on the main line of the C. & O. R. R. Ventilation is produced by natural means and is not good. The roof is bad. Drainage is bad. The mine is all on the retreat. The coal varies in thickness from five to seven feet. The mining laws are only reasonably well complied with.

THOMAS BARTLAM, *Supt. & Mine Foreman.*

W. R. JOHNSON COAL CO.

CRESENT, W. VA.

General Office of Company, Crescent, W. Va.

No. 708. *Crescent No. 6 Splint Mine.*—This is a drift mine operating the No. 6 Splint seam. The work is practically all on the retreat. Ventilation is produced by natural means and is not good. The coal is hauled to the outside by mules and thence to the tippie by an electric locomotive. Mining is done by picks. Solid shooting is practiced. Drainage is not good. The roof is not good. The mining laws are not all complied with.

THOMAS BARTLAM, *Supt. & Mine Foreman.*

MECCA COLLIERY CO.

EAGLE, W. VA.

General Office of Company, Eagle, W. Va.

No. 709. *Edgewater No. 2 Mine.*—This is a drift mine located at Eagle, operating the No. 2 Gas seam on the double entry system. The coal is 5 feet in thickness. Ventilation is produced by a 15 foot fan and is good. A shaft has been sunk lately which improved the ventilation of this mine wonderfully. The coal is mined by pick and electric chain machines. The roof is not good and needs careful timbering. The coal is gathered by mules and hauled to the outside by electric locomotives. The mining laws are reasonably well complied with.

H. T. SMARR, *Supt.*

JOHN E. CARVER, *Mine Foreman.*

MECCA COLLIERY CO.

EAGLE, W. VA.

General Office of Company, Eagle, W. Va.

No. 709. *Diamond No. 4 Mine.*—This is a drift mine located at Eagle on the main line of the C. & O. R. R. operating the No. 2 Gas seam. The mine is developing on the double entry system. Ventilation is produced by an 8 foot fan and is fair. The coal is 5 feet in thickness. The roof is not good in many places and requires careful timbering. Coal is mined by pick and electric chain machines and is gathered by mules and hauled to the outside by

electric locomotives, where it is hauled on the outside a distance of one mile by a steam locomotive to the tippie from where it can be shipped by either river or rail. The mining laws are reasonably well complied with.

H. T. SMARR, *Supt.*

JAMES FRAZIER, *Mine Foreman.*

MECCA COLLIERY CO.

EAGLE, W. VA.

General Office of Company, Eagle, W. Va.

No. 709. *Diamond No. 5 Mine.*—This is a drift mine located at Eagle on the main line of the C. & O. R. R., operating the No. 2 Gas seam on the double entry system. The coal is about 4 feet 6 inches in thickness. Ventilation is produced by a 16 foot fan. The roof is good. Drainage is good. The coal is undercut by electric chain mining machines and pick, and is gathered by mules and hauled to the outside by an electric locomotive from thence around a tram road by a steam locomotive a distance of one mile where it can be shipped by either river or rail. The mining laws are reasonably well complied with.

H. T. SMARR, *Supt.*

JAMES FRAZIER, *Mine Foreman.*

ST. CLAIR COLLIERY CO.

EAGLE, W. VA.

General Office of Company, Eagle, W. Va.

No. 710. *St. Clair Mine.*—This is a drift mine located at Eagle on the main line of the C. & O. R. R., operating the Eagle seam. Development is being advanced on the double entry system. Ventilation is produced by an 8 foot fan and is not good, on account of the poor conditions of the stoppings and cramped condition of the intake airway. The coal is 4 feet 6 inches in thickness and carries the regular Eagle seam parting. The coal is all undercut by electric chain machines, gathered by mules and hauled to the outside by an electric locomotive. The roof is good in most places in the mine. Drainage is good. Grades is good, and the mining law is reasonably well complied with.

LOUIS ATKINSON, *Gen. Mgr.*

C. C. FULTZ, *Mine Foreman.*

ST. CLAIR COLLIERY CO.

EAGLE, W. VA.

General Office of Company, Eagle, W. Va.

No. 710. *Eagle No. 5 Splint.*—This is a shaft mine located at Eagle on the main line of the C. & O. R. R., operating the No. 5 Splint seam on the double entry system. The coal is 5 feet 6 inches in thickness, and carries a draw slate about 8 inches thick, above which the roof is good. Ventilation is produced by natural means at the present time. A furnace will be constructed to ventilate the mine until such time as a fan can be installed. This is a new mine, the main entry at the present time only being 230 feet in length. The coal is run down an incline plane 2383 feet in length, where it is dumped into railroad cars. The mining law is fully complied with.

LOUIS ATKINSON, *Gen. Mgr.*

ED. FORBES, *Mine Foreman.*

M. B. COAL & COKE CO.

KIMBERLY, W. VA.

General Office of Company, Kimberly, W. Va.

No. 711. *Kimberly No. 3 Mine*.—This is a drift mine located at Kimberly on the Armstrong branch of the C. & O. R. R., operating the No. 2 Gas seam. Development is advanced on the double entry system. Ventilation is produced by a 12 foot fan and is good. The roof is good in nearly all parts of the mine. The coal is 4 feet 6 inches in thickness. Drainage is good. The coal is undercut by electric chain machines, gathered with mules and hauled to the tippie by an electric locomotive. Conditions in this mine are very favorable to general safety. The mining laws are fully complied with.

L. C. TIPPETT, *Supt.*WILLIAM HOLMES, *Mine Foreman*.*M. B. COAL & COKE CO.*

KIMBERLY, W. VA.

General Office of Company, Kimberly, W. Va.

No. 712. *Columbia No. 5 Mine*.—This is a drift mine located at Columbia on the Armstrong branch of the C. & O. R. R., operating the No. 5 Splint seam. The coal is about 6 feet in thickness. Development is on the double entry system. Ventilation is produced by a ten foot fan. The roof is very bad and needs careful timbering. The coal is gathered and hauled to the outside by mules. Drainage is not good. The coal is undercut by electric chain machines. The mining law is fully complied with.

L. C. TIPPETT, *Supt.*W. W. GILL, *Mine Foreman*.*M. B. COAL & COKE CO.*

KIMBERLY, W. VA.

General Office of Company, Kimberly, W. Va.

No. 713. *Elk Ridge No 1 Mine*.—This is a drift mine located at Elk Ridge on the Armstrong branch of the C. & O. R. R., operating the Powellton seam. The coal is five feet in thickness and development is advanced on the double entry system. The roof is reasonably good. Drainage is good. The grades are good. The coal is undercut by electric chain mining machines, and gathered with mules, and hauled to the outside by electric locomotives. The mining law is well complied with.

L. C. TIPPETT, *Supt.*LOUIS HORNSBY, *Mine Foreman*.*M. B. COAL & COKE CO.*

KIMBERLY, W. VA.

General Office of Company, Kimberly, W. Va.

No. 714. *Elk Ridge No. 2 Mine*.—This is a drift mine located at Elk Ridge on the Armstrong branch of the C. & O. R. R., operating the Powellton seam on the double entry system. The coal is about 5 feet 6 inches in thickness and the mine is developed on the double entry system. A boiler has been installed during the year near the drift mouth of the mine for the purpose of generating steam with which to humidify the intake air current. The roof is generally good. Ventilation is produced by a 10 foot fan. Drainage is good. The coal is undercut by electric chain mining machines, gathered with mules and hauled

to the outside by an electric locomotive. The mining laws are fully complied with.

L. C. TIPPETT, *Supt.*

L. M. PAYNE, *Mine Foreman.*

THE MOUNT CARBON COMPANY, LTD.

POWELLTON, W. VA.

General Office of Company, Powellton, W. Va.

No. 715. *Vulcan Mine.*—This is a drift mine operating the Powellton seam, located at Powellton on the Armstrong branch of the C. & O. R. R. The coal is from 5 to 6 feet in thickness. Ventilation is produced by an 8 foot fan and is reasonably good all over the mine. The roof is not good and requires very careful timbering to prevent accidents. Drainage is good. The coal is gathered with mules and hauled to the outside by an electric motor. The coal is screened at the tippie and the slack is made into coke at the company's own coke plant at the mines. The coal makes a very high grade coke. The mining laws are fully complied with.

D. T. EVANS, *Gen. Mgr.*

J. E. BURK, *Mine Foreman.*

MORRIS HANSFORD, *Supt.*

THE GREAT KANAWHA COLLIERY COMPANY.

MT. CARBON, W. VA.

General Office of Company, Macdonald, W. Va.

No. 716. *Gt. Kanawha Mine.*—This is a drift mine, located at Mount Carbon on the main line of the C. & O. R. R., operating the No. 2 Gas seam. Ventilation is produced by natural means, and is not good in many places. Drainage is not good as the mine is a pillar proposition entirely and water coming in from the surface caused by the drawing of pillars gives a great deal of trouble and keeps the mine in a very muddy condition. The roof is not good and requires very careful timbering. This mine only works a few men. The coal is hauled altogether with mules and undercut with picks. The mining law is reasonably well complied with.

FRED DIXON, *Supt.*

LOUP CREEK COLLIERIES CO.

PAGE, W. VA.

General Office of Company, Page, W. Va.

No. 717. *Loup Creek No. 2 Mine.*—This is a series of drift openings, located at Page on the main line of the Virginian R. R., operating the No. 2 Gas seam. Development is advanced on the double and triple entry panel system. The coal is about 5 feet in thickness. Ventilation is produced by a 5 foot Sirocco fan, and is very good. Stoppings are all constructed of masonry. The roof is good in some sections of the mine, in other sections it is very bad, and requires to be well timbered. The coal is undercut by machines of the puncher type, and pick, and is nearly all gathered and hauled to the outside by electric locomotives, very few mules being used in the mine. The mine generally is in good condition, and the mining laws are fully complied with.

J. C. R. TAYLOR, *Gen. Mgr.*

D. S. DOOLEY, *Mine Foreman.*

HERBERT COLLIERIES CO.

HERBERTON, W. VA.

General Office of Company, 165 Liberty St., N. Y.

No. 718. *Herbert Mine*.—This is a drift mine located at Herberton on the main line of the Virginian R. R., operating the Eagle seam on the double entry system. The coal is 4 feet in thickness. Ventilation is produced by an 8 foot fan and is good. Drainage is good. The roof is not good and requires very careful timbering. The coal is gathered with mules, and hauled to the outside by an electric locomotive. The company at the present time is in the hands of a receiver, but is not being operated. The mining law is fully complied with.

JOHN CONNELL, *Supt.*CLEVE MAYNOR, *Mine Foreman*.

FT. DEFIANCE COAL & COKE CO.

KANAWHA FALLS, W. VA.

General Office of Company, Ft. Defiance, W. Va.

No. 719. *Ft. Defiance Mine*.—This is a drift mine, located at Old Gauley on the main line of the C. & O. R. R., operating the Austed seam, on the double entry system. The coal is 4 feet 6 inches in thickness. Ventilation is produced by a furnace, which does not give satisfactory results. The roof is not good in many places, and requires to be very carefully timbered to prevent accidents. Drainage is good. The coal is undercut by mining machines of the compressed air puncher type. The coal is gathered by mules and hauled over the main entry by a rope haulage. The mining laws are reasonably well complied with.

T. R. RAGLAND, *Gen. Mgr.*A. B. THOMPSON, *Mine Foreman*.

LYNCHBURG COLLIERY CO.

VANETTA, W. VA.

General Office of Company, Vanetta, W. Va.

No. 720. *Lynchburg No. 2 Mine*.—This is a drift mine, located at Vanetta on the Gauley branch of the C. & O. R. R., operating the No. 2 Gas seam, and developed on the double entry system. The coal varies in thickness from 3 to 4 feet. The mine is composed of a series of drift openings, ventilated by furnaces, which does not give very satisfactory results. The roof is good. Drainage is good. Undercutting the coal is all done with picks, and hauled to the outside by mules, from where it is hauled around a tram road to the tippie by a steam locomotive. The mining laws are reasonably well complied with.

T. A. DEITZ, *Gen. Mgr.*J. C. GRISINGER, *Mine Foreman*.

LYNCHBURG COLLIERY CO.

VANETTA, W. VA.

General Office of Company, Vanetta, W. Va.

No. 720. *Lynchburg No. 5 Mine*.—This is a drift mine, located at Vanetta on the Gauley branch of the C. & O. R. R. The No. 5 Splint seam is operated. Development is advanced on the double entry system. Ventilation is produced by a furnace, which gives good results. The coal is 6 feet in thickness. The roof is good. Undercutting is done altogether with picks and some solid shooting is practiced. The coal gathered and hauled to the outside by mules.

from where it is handled over a tram road by a steam locomotive. The mining law is reasonably well complied with.

T. A. DIETZ, *Gen. Mgr.*

J. C. GRISINGER, *Mine Foreman*,

GOMOCA COAL CO.

GAMOCA, W. VA.

General Office of Company, Gamoca, W. Va.

No. 721. *Gamoca No. 5 Splint Mine*.—This is a drift mine, located at Gamoca, on the Gauley branch of the C. & O. R. R. The No. 5 Splint seam is operated on the double entry system. The coal averages 5 feet 6 inches in thickness. Ventilation is produced by a ten foot fan and is good. Drainage is good. The roof is exceptionally good. The coal is all undercut by picks with the exception of some solid shooting. A gasoline motor has been installed during the past year to take the place of mule haulage on the main entry. The coal is gathered by mules. The grades are good. The mining law is reasonably well complied with.

M. G. CAMPBELL, *Outside Supt.*

J. M. CAMPBELL, *Inside Supt.*

DEITZ COLLIERY CO.

WYNDAL, W. VA.

General Office of Company, Vanetta, W. Va.

No. 722. *Dietz No. 2 Mine*.—This is a drift mine located at Wyndal on the Gauley Branch of the C. & O. R. R. The No. 2 Gas seam is operated. The mine is developed on the double entry system. The coal is 3 feet in thickness. The roof is exceptionally good all over the mine. Ventilation is produced by a furnace which does not give satisfactory results all over the mine. The coal is all undercut with picks, and haulage is done altogether with mules from the face to the outside, from where it is hauled around a tram-road to the tippie by a steam locomotive. The mining law is reasonably well complied with.

T. A. DIETZ, *Gen. Mgr.*

L. D. MORAN, *Mine Foreman*.

DEITZ COLLIERY CO.

WYNDAL, W. VA.

General Office of Company, Wyndal, W. Va.

No. 722. *Dietz No. 5 Mine*.—This is a drift mine located at Wyndal, on the Gauley branch of the C. & O. R. R., operating the No. 5 Splint seam. The coal is 5 feet in thickness, and development is advanced on the double entry system. Ventilation is produced by a furnace, which gives good results. The roof is reasonably good. The coal is undercut with picks and some solid shooting is practiced. The coal is hauled altogether by mules to the outside. The grades are good. From the outside the coal is hauled by a steam locomotive around a tram road to the tippie. The mining laws are reasonably well complied with.

T. A. DIETZ, *Gen. Mgr.*

L. D. MORAN, *Mine Foreman*.

LONG BRANCH COAL CO.

LONG BRANCH, W. VA.

General Office of Company, Long Branch, W. Va.

No. —. *Long Branch No. 1 Mine*.—This is a drift mine located about one

mile west of Pat on the Virginian R. R. The Eagle seam is operated and averages about four feet in thickness with a slate parting varying in thickness from one to four inches. The mine is a new one and is ventilated at the present time by a furnace which gives fairly good results. Drainage is good. The roof is good. The grades are fairly uniform. The coal is all mined by pick, but the intention of the company in the future is to mine the coal with electric mining machines. Hauling is done with mules to the outside where the coal is run down a gravity plane, from there it is hauled over a tram road about one mile in length by a steam locomotive to the tippie where it is dumped into railroad cars. The mining law is fully complied with.

C. M. LILLY, *Supt.*

J. W. LILLY, *Mine Foreman.*

LONG BRANCH COAL CO.

LONG BRANCH, W. VA.

General Office of Company, Long Branch, W. Va.

No. —. *Long Branch No. 2 Mine.* This is a drift mine operating the No. 2 Gas Seam, located about one mile west of Pax on the main line of the Virginian R. R. The coal averages six feet in thickness is clean and of fine quality. Ventilation at the present time is produced by a furnace which gives fair results, but a fan will be installed in the very near future. The roof is good. The grades are good. The coal is all cut by pick and hauled to the outside with mules, from where it is run down two separately operated gravity planes, and is then hauled over a tramroad about one mile in length by a steam locomotive to the tippie, where it is dumped into R. R. cars. This is a new mine and at the present time bids fair to be one of the best in the Seventh District. The mining law is fully complied with.

C. M. LILLY, *Supt.*

J. W. LILLY, *Mine Foreman.*

KANAWHA COUNTY.

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 723. *Scranton Mine.* This is a drift mine located at Mucklow on the Paint Creek branch of the C. & O. R. R. The Coalburg Seam is operated. Development is on the double entry system. The coal is 5 feet in thickness, is undercut by electric chain mining machines and pick. The roof is not good and requires to be carefully timbered. Drainage is good. The coal is gathered by mules and hauled to the outside by electric motors. The mining law is fully complied with.

A. H. HALE, *Gen. Mgr.*

JOHN J. COX, *Mine Foreman.*

JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 724. *Paint Creek Mine.* This is a drift mine located at Mucklow on the Paint Creek Branch of the C. & O. R. R. The Coalburg Seam is operated. Ventilation is produced by a 10 foot fan and is good. The seam is about 7

feet in thickness, and carries a draw slate about two feet in thickness, which has to be taken down all over the mine, on account of it being impossible to timber it up safely. The coal is undercut by electric chain mining machines and pick. Drainage is good. The coal is hauled to sidetracks on the inside by mules from where it is hauled to the outside by electric locomotives. The mining law is fully complied with.

A. H. HALE, *Gen. Mgr.*

THOMAS BURK, *Mine Foreman.*

JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 724. *Crown Hill Mine.* This is a drift mine operating the Crown Hill Seam, located near Mucklow on the Paint Creek Branch of the C. & O. R. R. The coal is 5 feet in thickness. Ventilation is produced by a 10 foot fan which gives good results. The coal is all cut with electric chain mining machines. Gathered with mules and hauled by an electric locomotive to the outside then over a tramroad twenty six hundred feet in length, it is then hauled through a portion of the Paint Creek mine and dumped in the same tippie as the coal from Paint Creek mine. This is a new mine. The mining law is fully complied with.

A. H. HALE, *Gen. Mgr.*

THOMAS BURK, *Mine Foreman.*

JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 725. *Wacomah Mine.* This is a drift mine located at Wacomah on the Paint Creek branch of the C. & O. R. R. The Coalburg Seam is operated. Development is on the double entry system. The coal is 5 feet in thickness. Ventilation is produced by an 8 foot fan and is good. The roof needs to be carefully timbered. The coal is undercut by pick and electric chain mining machines. The coal is gathered by mules and hauled to the outside by an electric locomotive. The grades are good throughout the mine. Drainage is good. The mining laws are fully complied with.

A. H. HALE, *Supt.*

GEORGE HUDNALL, *Mine Foreman.*

JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 726. *Banner No. 1 Mine.* This is a drift mine located at Banner on the Paint Creek Branch of the C. & O. R. R. The Coalburg Seam is operated and is about 6 feet in thickness. Ventilation is produced by an 8 foot fan and is good. The coal is undercut by pick and electric chain mining machines. The roof carries a very dangerous draw slate, which has to be taken down on account of it being impossible to timber it safely. Drainage is good. The grades are good. The coal is gathered by mules and hauled to the outside by

mules and by an electric locomotive. The mining law is fully complied with.
A. H. HALE, *Gen Mgr.* D. L. WALTERS, *Mine Foreman.*
JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 726. *Banner No. 2 Mine.* This is a drift mine located at Banner, operating the Lewiston Seam. Development is on the double entry system. The coal is 4 feet 2 inches in thickness. Ventilation is produced by a furnace and is not satisfactory. The coal is undercut by electric chain mining machines, gathered and hauled to the outside by mules. The roof and grades are good. The mining laws are reasonably well complied with.

A. H. HALE, *Gen Mgr.* D. L. WALTERS, *Mine Foreman.*
JOHN GREEN, *Supt.*

STANDARD SPLINT & GAS COAL CO.

STANDARD, W. VA.

General Office of Company, Standard, W. Va.

No. 727. *Standard Mine.* This is a drift mine located at Standard on the Paint Creek Branch of the C. & O. R. R. The Coalburg seam is operated on the double entry and panel system, and is 7 feet in thickness. Ventilation is produced by a 10 foot fan, and is split and well distributed throughout the mine. The coal is undercut by electric chain mining machines. The roof is exceptionally good. The coal is gathered by mules and hauled to the tippie by electric locomotives. The mining laws are fully complied with.

WALTER A. WOOD, *Supt. and Gen. Mgr.* ED. FOSTER, *Mine Foreman.*

PAINT CREEK COLLIERIES CO.

MUCKLOW, W. VA.

General Office of Company, Scranton, Pa.

No. 728. *Detroit Mine.* This is a drift mine, located at Detroit on the Paint Creek Branch of the C. & O. R. R. The Eagle Seam is operated, and is about 4 feet in thickness. Mining is done by pick and puncher machines. Ventilation is produced by an 8 foot fan and is good. The roof is reasonably good. The coal is gathered and hauled to the outside by mules. The mining law is fully complied with.

A. H. HALE, *Gen. Mgr.* GEORGE HOGUE, *Mine Foreman.*
JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES COMPANY.

TOMSBURG, W. VA.

General Office of Company, Scranton, Pa.

No. 729. *Morton Nos. 1 & 2 Mines.* These are drift mines located at Tomsburg on the Paint Creek Branch of the C. & O. R. R. operating the Eagle seam. The coal varies from 3 to 4 feet in thickness. The roof is exceptionally good. Drainage is good. Ventilation is produced by a furnace which does not give satisfactory results. It is the intention of the company if they continue

to operate the mine to install a fan. The coal is all hauled by mules, undercutting is done with mining machines of the putcher type. With the exception of ventilation the mining law is fully complied with.

A. H. HALE, *Gen. Mgr.*

RICHARD GILL, *Mine Foreman.*

JOHN GREEN, *Supt.*

PAINT CREEK COLLIERIES COMPANY.

TOMSBURG, W. VA.

General Office of Company, Scranton, Pa.

No. 730. *Grosc No. 1 Mine.* This is a drift mine located at Tomsburg on the Paint Creek Branch of the C. & O. R. R. The Eagle seam is operated, and is 3 feet in thickness. The roof is not good and requires to be carefully timbered. The coal is undercut by electric chain mining machines. Drainage is good and the grades are good. Ventilation is produced by an 8 foot fan, which gives good results. The coal is hauled by mules, and electric locomotive. The mining law is reasonably well complied with.

A. H. HALE, *Gen. Mgr.*

V. D. JOHNSON, *Mine Foreman.*

J. F. HALE, *Supt.*

PAINT CREEK COLLIERIES COMPANY.

TOMSBURG, W. VA.

General Office of Company, Scranton, Pa.

No. 730. *Grosc No. 2 Mine.* This is a drift mine located at Tomsburg on the Paint Creek Branch of the C. & O. R. R. The Powellton seam is operated and developed on the double entry system. The coal varies from 5 to 6 feet in thickness and carries a rock parting in many places. Ventilation is produced by an 8 foot fan which gives good results. The roof is reasonably good. The grades are good. Coal is undercut by electric chain mining machines and hauled by mules and electric locomotives. The mining law is fully complied with.

A. H. HALE, *Gen. Mgr.*

V. D. JOHNSON, *Mine Foreman.*

J. F. HALE, *Supt.*

PAINT CREEK COLLIERIES COMPANY.

TOMSBURG, W. VA.

General Office of Company, Scranton, Pa.

No. 731. *Greenbrier No. 3 Mine.* This mine has been abandoned, and the tracks, electric wires, etc., has been taken out. It is the purpose of the company to get the coal from this mine by some other opening.

J. F. HALE, *Supt.*

LEE PATRICK, *Mine Foreman.*

PAINT CREEK COLLIERIES COMPANY.

TOMSBURG, W. VA.

General Office of Company, Scranton, Pa.

No. 731. *Greenbrier No. 2 Mine.* This is a drift mine located at Greenbrier, on the Paint Creek Branch of the C. & O. R. R. The No. 2 Gas seam is operated and is about five feet in thickness. Ventilation is produced by an

8 foot fan, which gives good results. The coal is all undercut with picks. The mine has an ideal roof. Drainage is good. The coal is gathered by mules and hauled to the outside with electric locomotives. The mining laws are fully complied with.

A. H. HALE, *Gen Mgr.*

LEE PATRICK, *Mine Foreman.*

J. FRANK HALE, *Supt.*

IMPERIAL COLLIERY COMPANY.

BURNWELL, W. VA.

General Office of Company, Burnwell, W. Va.

No. 732. *Imperial No. 1 Mine.* This is a drift mine located at Burnwell on the Paint Creek Branch of the C. & O. R. R. The Eagle Seam is operated. The coal is five feet four inches in thickness. Ventilation is produced by an 8 foot fan which gives good results. The roof is not good, and has to be carefully timbered. Drainage is good. The coal is undercut with pick and mining machines of the puncher type, is gathered with mules and hauled to the outside by an electric locomotive. The mining law is fully complied with.

QUINN MORTON, *Gen Mgr.*

L. R. HOWARD, *Mine Foreman.*

P. H. MORTON, *Supt.*

IMPERIAL COLLIERY COMPANY.

BURNWELL, W. VA.

General Office of Company, Burnwell, W. Va.

No. 733. *Imperial No. 2 Mine.* This is a drift mine located at Burnwell on the Paint Creek Branch of the C. & O. R. R. The Eagle Seam is operated. The mine is developed on the double entry system. The coal is 3 feet 8 inches in thickness. Ventilation is produced by a 6 foot fan and is not very satisfactory. Mining is done by electric chain machines. The roof is good. Drainage is good. The coal is gathered with mules and hauled to the outside by an electric locomotive. With the exception of ventilation being weak the mining law is fully complied with.

QUINN MORTON, *Gen Mgr.*

M. D. BOWLDEN, *Mine Foreman.*

P. H. MORTON, *Supt.*

IMPERIAL COLLIERY COMPANY.

BURNWELL, W. VA.

General Office of Company, Burnwell, W. Va.

No. 733. *Imperial No. 3 Mine.* This is a drift mine located at Burnwell on the Paint Creek Branch of the C. & O. R. R. The Eagle Seam is operated on the double entry system. The coal is 5 feet in thickness. Ventilation is produced by an 8 foot fan, which gives good results. The roof is fairly good, but requires to be very carefully timbered. Drainage is good. The coal is undercut by pick and electric chain mining machines, and is gathered and hauled to the outside by electric locomotives. The mining law is fully complied with.

QUINN MORTON, *Gen Mgr.*

M. D. BOWLDEN, *Mine Foreman.*

P. H. MORTON, *Supt.*

COALBURG KANAWHA COAL COMPANY.

COALBURG, W. VA.

General Office of Company, Coalburg, W. Va.

No. 734. *Coalburg (A) Mine.* This is a drift mine located at Coalburg on the main line of the C. & O. R. R. The Coalburg Seam is operated and developed on the double entry system. The coal is about 6 feet in thickness. Ventilation is produced by a 7 foot fan which gives good results. The roof is not good and needs careful timbering. Drainage is good. The coal is all undercut by electric chain mining machines, is gathered with mules, and hauled to the outside by electric locomotives. The mining law is fully complied with.

J. A. WILLIS, *Supt.*J. N. BURGRAFF, *Mine Foreman.*

COALBURG KANAWHA COAL COMPANY.

COALBURG, W. VA.

General Office of Company, Coalburg, W. Va.

No. 734. *Coalburg (B) Mine.* This is a drift mine located at Coalburg on the main line of the C. & O. R. R. The Belmont Seam is operated. The coal is 3 feet 8 inches in thickness. Ventilation is produced by a 7 foot fan. The roof is good. Drainage is good. The coal is all undercut by electric chain machines, gathered with mules and hauled to the outside by electric locomotives. The mining law is fully complied with.

J. A. WILLIS, *Supt.*J. N. BURGRAFF, *Mine Foreman.*

EAST BANK MINING CO.

EAST BANK, W. VA.

General Office of Company, East Bank, W. Va.

No. 735. *East Bank Mine.* This is a drift mine located at East Bank on the main line of the C. & O. R. R. The Cedar Grove Seam is operated. The coal is 2 feet 10 inches in thickness. Ventilation is produced by a furnace, which does not give satisfactory results. The roof is good. Drainage is good. The coal is hauled altogether with mules. The mining law is reasonably well complied with.

EDWARD CLARK, *Supt.*A. M. HOWERY, *Mine Foreman.*

SOUTHWESTERN SPLINT FUEL COMPANY.

CROWN HILL, W. VA.

General Office of Company, Grafton, W. Va.

No. 736. *Black Cat Mine.* This is a drift mine located at Crown Hill on the main line of the C. & O. R. R. The Coalburg Seam is operated on the double entry system, and is six feet in thickness. The roof is reasonably good, but needs careful timbering. Drainage is good. Ventilation is produced by a 6 foot fan, which gives reasonably good results. The coal is undercut by electric chain mining machines, and is gathered with mules, and hauled to the outside by electric locomotives. The mining law is reasonably well complied with.

S. B. BRYDEN, *Supt.*G. C. BAILEY, *Mine Foreman.*

BELMONT COAL COMPANY.

CROWN HILL, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 737. *Belmont Mine.* This is a drift mine located at Crown Hill on the main line of the C. & O. R. R. The Crown Hill seam is operated on the double entry system, and is 5 feet in thickness. Ventilation is produced by a 7 foot fan which gives good results. The roof is not good and requires careful timbering. Drainage is good. The coal is undercut by electric chain mining machines and gathered with mules and hauled to the outside by electric locomotives. The mining law is fully complied with.

F. B. STEWART, *Gen. Mgr.*C. B. STEWART, *Mine Foreman.***BELMONT COAL COMPANY.**

WINIFREDE, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 737. *Cedar Grove Mine.* This is a drift mine located at Crown Hill on the main line of the C. & O. R. R. The Cedar Grove seam is operated and is two feet six inches in thickness. Ventilation is produced by a 7 foot fan and is reasonably good. The roof is good. Drainage is good. The coal is hauled altogether with mules and undercut with electric chain machines. The mining law is reasonably well complied with.

F. B. STEWART, *Gen. Mgr.*C. B. STEWART, *Mine Foreman.***CROWN HILL KANAWHA COAL COMPANY.**

CROWN HILL, W. VA.

General Office of Company, Crown Hill, W. Va.

No. 738. *No. 8 Coalburg Mine.* This is a drift mine, located at Crown Hill on the main line of the C. & O. R. R. The Coalburg seam is operated. The coal varies in thickness from 4 feet 6 inches to 6 feet. Ventilation is produced by an 8 foot fan, which gives fair results. The roof is not good in many places, and has to be carefully timbered. Drainage is good. The coal is undercut by electric chain mining machines, gathered with mules and hauled to the outside by electric locomotives. The mining law is reasonably well complied with.

E. L. BREWER, *Supt.*R. C. MITCHELL, *Mine Foreman.***CHESAPEAKE MINING COMPANY.**

HANDLEY, W. VA.

General Office of Company, Handley, W. Va.

No. 739. *Chesapeake No. 1 Mine.* This is a drift mine located near Handley on the main line of the C. & O. R. R. The Kanawha Seam is operated. Development is on the double entry system. The seam is 5 feet 4 inches in thickness, and carries a slate parting. Ventilation is produced by a ten foot fan which gives reasonably good results. The coal is undercut by pick, and electric chain mining machines. The roof is not good, and requires to be very carefully timbered. Drainage is good. The coal is gathered with mules and hauled to the outside hence around a tramroad to the tippie by electric locomotives. The mining law is reasonably well complied with.

G. B. COMBS, *Supt.*JOHN FILBIN, *Mine Foreman.*

CHESAPEAKE MINING COMPANY.

HANDLEY, W. VA.

General Office of Company, Handley, W. Va.

No. 739. *Chesapeake No. 2 Mine.* This is a drift mine located near Handley on the main line of the C. & O. R. R. The No. 2 Gas Seam is operated, and is three feet 6 inches in thickness. Ventilation is produced by a 10 foot fan, and has never been very satisfactory, on account of the mine being badly cut up in years gone by. Drainage is good. The coal is cut with pick. Haulage is done by mules to the outside. Thence to the tippie by a steam locomotive. The mining law is reasonably well complied with.

G. B. COMBS, *Supt.*JAMES GOODYEAR, *Mine Foreman.*

CHESAPEAKE MINING COMPANY.

HANDLEY, W. VA.

General Office of Company, Handley, W. Va.

No. 740. *Chesapeake No. 3 Mine.* This is a drift mine located near Handley on the main line of the C. & O. R. R. The Coalburg seam is operated. Development is on the double entry system. The coal is 4 feet in thickness and carries a very dangerous draw slate which has to be taken down practically all over the mine. The roof above the draw slate is good. Ventilation is produced by an 8 foot fan and is very good. Drainage is good. The coal is undercut by pick and electric chain mining machines, and is hauled by mules and electric locomotives. The mining law is fully complied with.

G. B. COMBS, *Supt.*JOHN FILBINS, *Mine Foreman.*

MONTGOMERY MINING COMPANY.

MONTGOMERY, W. VA.

General Office of Company, Montgomery, W. Va.

No. 741. *Upper Creek Mine.* This is a drift mine located between Handley and Montgomery on the main line of the C. & O. R. R. The Kanawha Seam is operated, and is four feet in thickness. The roof is not good, and has to be carefully timbered. Drainage is good. Ventilation is only fair. The mine is a pillar proposition, and is nearly worked out. The mining law is reasonably well complied with.

S. H. MONTGOMERY, *Gen Mgr.*S. P. JOHNSON, *Mine Foreman.*

MONTGOMERY MINING COMPANY.

MONTGOMERY, W. VA.

General Office of Company, Montgomery, W. Va.

No. 741. *Posom Hollow Mine.* This is a drift mine located between Handley and Montgomery on the main line of the C. & O. R. R. The Kanawha seam is operated and is 4 feet in thickness. Ventilation is produced by a 4 foot fan, and gives reasonably good results. The roof is good. Drainage is good. The coal is all undercut with pick, and gathered with mules, and hauled to the tippie by an electric locomotive. The mine is a pillar proposition and will not last long. The mining law is reasonably well complied with.

S. H. MONTGOMERY, *Gen Mgr.*S. P. JOHNSON, *Mine Foreman.*

MORRIS CREEK COLLIERY COMPANY.

DONWOOD, W. VA.

General Office of Company, Charleston, W. Va.

No. 742. *Morris Creek Mine.* This is a drift mine located about one mile above Donwood on the Morris Creek Branch of the C. & O. R. R.. The Kanawha seam is operated. The coal is 4 feet 8 inches in thickness, and carries a parting. Ventilation is produced by an 8 foot fan, which gives reasonably good results. Drainage is good. The coal is undercut by pick, and electric chain machines. The roof is good, but needs to be well timbered. The coal is hauled by mules, and an electric locomotive. The mining law is reasonably well complied with.

GORDON S. SEAL, *Supt.*J. I. ABSOLAM, *Mine Foreman.***MORRIS CREEK COLLIERY COMPANY.**

MONTGOMERY, W. VA.

General Office of Company, Charleston, W. Va.

No. 742. *Morris Creek No. 5 Splint Mine.* This is a drift mine located one mile above Donwood on the Morris Creek Branch of the C. & O. R. R. The No. 5 Splint Seam is operated. The mine is new, very little development has been done. The coal shows about 5 feet in thickness, and carries a draw slate, which has to be carefully timbered. Drainage is good. Ventilation at the present time is produced by a furnace which is not satisfactory. The coal is undercut by electric chain mining machines and hauled by mules to the incline plane. The mining law is reasonably well complied with.

GORDON S. SEAL, *Supt.*J. I. ABSOLAM, *Mine Foreman.***NICHOLAS COUNTY.****GREENDALE COLLIERIES COMPANY.**

VAUGHN, W. VA.

General Office of Company, Greendale, W. Va.

No. 743. *Raven Mine.* This is a drift mine located at Greendale on the Twenty Mile creek on the Gauley Branch of the C. & O. R. R. The Coalburg Seam is operated. Ventilation is produced by an 8 foot fan which gives reasonably good results. The coal is undercut by electric chain machines. The roof has to be carefully timbered. The coal is gathered with mules and hauled to the outside of an electric locomotive. The mining law is reasonably well complied with.

J. E. GRIFFITH, *Mine Foreman.*NUTE ELKINS, *Assistant, Mine Foreman.*

EIGHTH DISTRICT.

GENERAL SUMMARY FOR THE EIGHTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.			EMPLOYEES.									Production of	
	No. of Openings.	No. of Persons Killed.	Inside.					Outside.				Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.		
Fayette..... (Part)	33	30	2,021	588	203	881	3,693	583	124	707	4,400	3,380,296	70,009
Raleigh..... (Part)	5	0	155			29	184	35		35	219	164,118	
Total	38	30	2,176	588	203	910	3,877	618	124	742	4,619	3,544,414	70,009

Office of Eighth District Mine Inspector.

HINTON, W. VA.

HON. JOHN LAING,

*Chief of the Department of Mines,
Charleston, W. Va.*

Dear Sir:

In compliance with the law I herewith respectfully submit my annual report as Inspector of the Eighth Mining District for the year ending June 30, 1912.

I regret to report the usual number of accidents fatal and nonfatal caused by falling of roof, mine cars, and motors which will only be reduced in the future by the workmen being educated to the dangers connected with their work and the necessity of obedience to orders from the officials and the latter keeping posted by frequent visits with any and all dangers existing throughout the workings and seeing that all orders for safety are carried out to the letter.

Too much cannot be said of discipline and the benefits of it as it is known that fewer accidents occur and a better class of workmen are employed where rigid discipline is enforced.

I appreciate the rulings governing the safety of mines issued by you as Chief of the Department of Mines and feel satisfied that a strict observance of these rulings will go a long way in reducing disastrous explosions throughout the state. The ruling that all mines must have at least 90 per cent. relative humidity will have much to do with eliminating explosions of coal dust.

Three fans have been installed during the year two in mines previously ventilated by furnaces; one at Michigan Mine and one at Glendale Colliery Company's mine at Glendale. The other is at No. 4 Thurmond a new opening at Thurmond No. 1 mine.

I am pleased to report continued co-operation with the Department of Mines throughout the district and appreciate the courteous treatment in connection with my duty and received from both miners and mine officials and thank you as Chief of the Department of Mines for advice and assistance given at all times.

Very Truly Yours,

R. Y. MUIR,

Inspector Eighth District.

Mines Idle During the Year.

Pine Top.
New River Valley.
Mars Branch.
Gaymont.
Sunny Side.
Elmo.
Kohinoor.
Cunnard.
Dubree No. 2.
Ridgeview.

New Mines Opened During the Year.

Cliff Top No. 4.

FAYETTE COUNTY.

MILL CREEK COLLIERY COMPANY.

P. O. and General Office, Ansted, W. Va.

No. 801. *Mill Creek Mine.* Is a drift located one half mile from Hawks Nest on the Anstead branch of the C. & O. R. R., operating the Sewell seam averaging about 3 feet thick. Roof is generally of a good slate. Drainage is moderate. Ventilation is produced by a ten foot exhaust fan which gives good results. During the year a small air driven rope haulage has been installed at the tippie to haul coal from mine mouth to tippie.

W. H. EVANS, *Mgr.*

W. W. JOHNSON, *Mine Foreman.*

R. H. MASSEY, *Supt.*

HARRY SMITH, *Fire Boss.*

GAULEY MOUNTAIN COAL COMPANY.

P. O. and General Office, Anstead, W. Va.

No. 802. *Nova Scotia and Turkey Creek Mines.* Are drifts located about three and one half miles from Hawks Nest on the Anstead branch of the C. & O. R. R., operating the No. 2 Gas seam about 4 feet 8 inches thick. Roof is very bad in parts requiring constant attention. Drainage is generally good.

Ventilation is produced by two 10 foot and two 6 foot disc fans giving fairly good results. Other conditions comply with the law.

W. N. PAGE, *Pres. & Mgr.*

JAS. A. MARTIN, *Mine Foreman.*

R. C. TAYLOR, *Supt.*

GALLIFORD WILLIAMS, *Asst.*

JOE ARBAUGH, *Asst.*

SIGNAL KNOB COAL COMPANY.

P. O. and General Office, Anstead, W. Va.

No. 803, *Signal Knob Mine.* Is a drift located on the Anstead branch of the C. & O. R. R., operating the No. 2 gas seam about 5 feet 6 inches thick. Ventilation is produced by a 7 foot steam driven disc fan giving good results. Roof is good. Drainage is fairly good. Other conditions comply with the law.

W. H. EVANS, *Mgr.*

R. A. FORLOIN, *Mine Foreman.*

R. H. MASSEY, *Supt.*

MICHIGAN COAL COMPANY.

P. O. and General Office, Fayette, W. Va.

No. 804, *Michigan Mine.* Is a drift located on north side of New River four miles east of Hawks Nest on the C. & O. R. R. operating the Sewell seam on the double entry system. Ventilation is produced by a ten foot steam driven double inlet Crawford & McCrinmen fan installed during the year which gives good results. Drainage is reasonably good. Roof is slate and good when given proper attention. Other conditions meet the requirements.

J. D. BOONE, *MGR. and Supt.*

C. E. SIMMS, *M. F. & F. B.*

MANUFACTURERS AND CONSUMERS COAL COMPANY.

P. O. FAYETTE, W. VA.

General Office, Scranton, Pa.

No. 805, *Newlyn Mine.* Is a drift located four and one half miles east of Hawks Nest on the C. & O. R. R., north side of New River operating the Sewell seam on the double entry system. Ventilation is produced by an eight foot disc fan driven by a gasoline motor, which gives good results. This mine is very wet and hard to drain. The roof is slate and reasonably good. Other conditions meet with the requirements.

P. H. HENRY, *Mgr. and Supt.*

J. W. SIMMS, *Mine Foreman.*

S. L. WATSON, *Fire Boss.*

FAYETTE C. & C. COMPANY.

Operated by E. G. Blume, Administrator.

P. O. and General Office, Fayette, W. Va.

No. 806, *Fayette Mine.* Is a drift located on the north side of New River on the C. & O. R. R., five miles east of Hawks Nest operating the Sewell seam on the double entry system. Ventilation is produced by a seven foot disc fan driven by an electric fan and is reasonably good. Roof is slate and good. Drainage is good. A new six ton haulage motor has been put in operation during the year which has been some help to the output.

E. G. BLUME, *Mgr.*

D. H. RHODES, *M. F. & F. B.*

NUTTALBURG SMOKELESS FUEL COMPANY.

P. O., NUTTALBURG, W. VA.

General Office, Nuttallburg, W. Va.

No. 807. *Nuttalburg Mine.* Is a drift located on the north side of New River seven miles east of Hawks Nest on the C. & O. R. R., operating the Sewell seam. This mine changed hands during the year having been operated in the fore part of the year by the Nuttallburg Collieries Co. Drainage is good and the roof is good when taken care of. Ventilation is produced by an eighteen foot steam driven fan which also furnishes air for part of Keeneys Creek mine. The condition of the main air course is such from falls of roof and leaks from abandoned works that the ventilation is poor at working face. This was promised to be attended to on my last visit.

W. E. DEEGAN, *Gen. Mgr.*F. L. RAMEY, *Supt. & M. F.*J. E. STEVENS, *F. B.**HOLLIDAY COAL COMPANY.*

P. O. and General Office, Edmond, W. Va.

No. 808. *Keeneys Creek Mine.* Is a drift located at the mouth of Keeneys Creek on the C. & O. R. R., operating the Sewell seam in a small way, doing mostly robbing work for the past year. Preparation is being made to further develop the lease. A new six ton gasoline motor has been purchased and track is being re-laid in old main entry with the intention of opening up more extensively.

W. E. DEEGAN, *Mgr.*C. McHOLLIDAY, *M. F. & Supt.**KEENEYS CREEK COLLIERY COMPANY.*

P. O. and General Office, Winona, W. Va.

No. 809. *Moone Mine.* Is a drift located on Keeneys Creek branch of the C. & O. R. R., three miles from junction operating the Sewell seam three and one half feet thick. Roof is fairly good slate. Drainage is moderately good. Ventilation is produced by an 8 foot disc fan which gives good results.

J. WADE BELL, *Mgr. & Supt.*T. H. SEACREAST, *M. F.*

No. 810. *Smokeless Mine.* Is a drift located on Keeneys Creek branch of the C. & O. R. R., four and one half miles from junction. Ventilation is produced by an 8 foot disc fan which gives good results. Roof is brittle in parts requiring attention. Drainage is good. Other conditions comply with the law.

J. WADE BELL, *Mgr. & Supt.*T. H. SEACREAST, *M. F.**BALLINGER COAL COMPANY.*

P. O. and General Office, Nuttallburg, W. Va.

Nos. 811-812. *Balleneger No. 1 & No. 2 Mines.* Are drifts located on Keeneys Creek branch of the C. & O. R. R., $3\frac{1}{2}$ and 4 miles from Junction operating the Sewell seam three and one half feet thick. No. 2 mine has been working from two to four men and no inspections have been made. No. 1 is ventilated by one eight and one three disc fan giving moderate results. The three foot fan is too small for the purpose and a larger one is promised. Roof

is very brittle in new drift requiring care to keep safe. Drainage is generally good.

GEORGE HOLLAND, *Mgr. & Supt.*

JOHN OHLINGER, *M. F.*

ROTHWELL COAL COMPANY.

P. O. and General Office, Dubree, W. Va.

No. 813. *Dubree Mine.* In a drift located five miles from Junction on Keeney's Creek branch of the C. & O. R. R., operating the Sewell seam 3 feet 6 inches thick. Ventilation is produced by a twelve foot fan giving good results. Roof is said rock and good. Drainage is poor in parts of the mine. Other conditions comply with the law.

H. H. ROTHWELL, *Mgr. & Supt.*

CHAS. HIGGINS, *M. F.*

BLUME C. & C. COMPANY.

P. O. and General Office, Lookout, W. Va.

No. 814. *Blume Mine.* Is a drift located six and one half miles from junction on Keeney's Creek branch of the C. & O. R. R., operating the Sewell seam 3 feet thick. Roof is slate and fairly good. Drainage is good. Ventilation is produced by a 10 foot disc fan which gives generally good results. Other conditions comply with the law.

D. W. BOONE, *Mgr. and Supt.*

A. R. JONES, *M. F.*

LOOKOUT C. & C. COMPANY.

P. O. and General Office, Lookout, W. Va.

No. 815. *Lookout Mine.* Is a drift located seven miles from Junction on Keeney's Creek branch of the C. & O. R. R., operating the Sewell seam averaging 2 feet 2 inches thick. Ventilation is produced by a 10 foot disc fan which gives good results. Roof and drainage is good. All coal is mined by electric machines.

D. W. BOONE, *Mgr. and Supt.*

D. H. LUCAS, *M. F.*

SEWELL COLLIERY COMPANY.

P. O. and General Office, Caperton, W. Va.

No. 816. *Sewell Colliery Co. Mine.* Is a drift located on the north side of New River on the C. & O. R. R., one mile west of Sewell station operating the Sewell seam 4 feet thick. Roof is slate and bad in parts. Drainage is fairly good. Ventilation is produced by two disc fans driven by electricity which gives general good results. Other conditions comply with the law.

D. W. BOONE, *Mgr. and Supt.*

J. W. TULLY, *M. F.*

GLADE COAL WORKS COMPANY.

P. O., CLIFFTOP, W. VA.

General Office, Sewell, W. Va.

No. 817. *Clifftop Mines No. 3 & No. 4.* Are drift mines located at Clifftop on Manns Creek narrow gauge R. R. nine miles from Sewell station operating the Sewell seam averaging three feet thick. Number three mine, formerly operated by Mosely & Walker, is developed on double entry system. Ventilation is produced by an eight foot disc fan which gives fairly good results.

Roof is reasonably good, drainage is good, and other conditions meet the requirements. Number four is a new mine opened on double entry system and ventilated by an eight foot Crawford & McCrimmon fan driven by a 16 H. P. gasoline motor which gives good results. A new tippie with a bin holding 150 tons has been built at this mine. Other conditions comply with the law.

H. A. MOSELEY, *Mgr.*

EDGAR MOORE, *Mine Foreman.*

W. L. HERNDON, *Supt.*

FERDINAND PLATZER, *Mine Foreman.*

FIRE CREEK C. & C. COMPANY.

P. O., FIRE CREEK, W. VA.

General Office, Staunton, Va.

No. 818. *Buffalo Mine.* Is a drift located on the north side of New River on the C. & O. R. R., three miles east of Sewell operating the Fire Creek seam 3 feet 8 inches thick. Roof is good slate. Drainage is moderate. Ventilation is produced by a 14 foot exhaust fan which gives good results. Other conditions meet the requirements.

H. S. SPROUL, *Gen. Mgr.*

J. W. RHODES, *M. F.*

H. H. BLACKBURN, *Supt.*

BEURY BROS. C. & C. COMPANY.

P. O. and General Office, Beury, W. Va.

No. 819. *Echo Mine.* Is a drift located three miles west of Thurmond on the C. & O. R. R., operating the Fire Creek seam 4 feet thick. Only pillar work is being done. Ventilation is produced by an 8 foot disc fan located at Stone Cliff which considering the distance the air is taken does fairly well. Klondyke a small drift in connection with this operation is ventilated by a seven foot disc fan which gives moderate results. They began operating this drift in June 1912 it having been closed for some time.

H. B. BEURY, *Mgr. and Supt.*

W. L. McDANIELS, *M. F.*

BIG BEND COAL COMPANY.

P. O., DIMMOCK, W. VA.

Office of Company, Dimmock, W. Va.

No. 820. *Big Bend Mine.* Is a drift located on the north side of New River on the C. & O. R. R., one mile west of Thurmond operating the Fire Creek seam three feet thick. The roof is slate and moderately good. Drainage is good. Ventilation is produced by an eight foot disc fan which gives fairly good results. Other conditions meet the requirements.

J. H. DEMPSEY, *Supt.*

O. C. WISEMAN, *M. F.*

STONE CLIFF COAL & COKE COMPANY.

P. O., STONE CLIFF, W. VA.

Office of Company, Charleston, W. Va.

No. 821. *Stone Cliff Mine.* Is a drift located on the C. & O. R. R., one and one half miles east of Thurmond operating the Fire Creek seam three feet thick. Drainage is reasonably good. Roof is good. Ventilation is produced by two disc fans which give fairly good results. One of the fans furnishes air for Echo mine.

J. H. DEMPSEY, *Mgr. and Supt.*

J. D. McDANIELS, *M. F.*

BEECHWOOD COAL & COKE COMPANY.

P. O. and General Office, Claremont, W. Va.

No. 822-823. *Beechwood No. 1 & No. 2 Mines.* Are drifts located on the C. & O. R. R., three miles east of Thurmond operating the Fire Creek seam from three to five feet thick. Drainage is good and roof is generally good. Ventilation is produced by a twelve foot force fan at No. 1 and by a five foot exhaust fan at No. 2 which give moderate results. A new fan is to be installed at central mine to take care of No. 1 and should greatly improve conditions in this mine. All other conditions meet the requirements.

C. C. BEURY, *Gen. Mgr.*R. B. HANNA, *M. F.*E. L. HAWLEY, *Supt.*JOHN O'DANIEL, *M. F.**ALASKA COAL & COKE COMPANY.*

P. O. and General Office, Claremont, W. Va.

No. 824. *Alaska Mine.* Is a drift located on the C. & O. R. R., three and one half miles east of Thurmond operating the Fire Creek seam four feet thick. The roof is of good slate. Drainage is good. Ventilation is produced by an eight foot force fan giving fairly good results. This mine is now robbing main entry pillars and will soon be finished. Conditions comply reasonably well with the requirements.

GEORGE LAWTON, *Mgr. and Supt.*S. M. PETERS, *M. F.**EPHRAIM CREEK C. & C. COMPANY.*

THAYER, W. VA.

General Office, Room 1514 No. 11 Broadway, New York, N. Y.

No. 825. *Buffalo Mine.* Is a drift located on the C. & O. R. R., five miles east of Thurmond operating the Fire Creek seam. Roof is good. Drainage is good. Ventilation is produced by three disc fans located inside which give fairly good results.

WM. WARNER, *Supt.*E. M. BRETZMAN, *M. F.*M. C. JONES, *Mgr.**EXPORT COAL COMPANY.*

P. O., EXPORT, W. VA.

General Office, McDonald, W. Va.

No. 826. *Export Mine.* Is a drift located on the Laurel Creek branch of the C. & O. R. R., three miles from Quinnimont operating the Fire Creek seam on the double entry system. Ventilation at present is produced by four small furnaces which give only moderate results. It is intended as soon as the four drifts that are being worked can be connected to put a fan No. 5 drift and ventilate the entire workings with it. Roof is good. Drainage is poor at present.

JOS. BEURY, *Mgr.*C. E. CHAMBERLAIN, *M. F.*E. E. HUDDLESTON, *Supt.**LAUREL CREEK COAL COMPANY.*

P. O., LAUREL CREEK, W. VA.

No. 827. *Laurel Creek Mine.* Is a drift located on the Laurel Creek branch of the C. & O. R. R., four miles from Quinnimont operating the Fire Creek seam

four feet thick. The roof is good slate and drainage is good. Ventilation is produced by an eight foot disc fan which gives good results. Considerable improvement has been made and kept during the year in ventilation. Other conditions comply with the law.

E. E. LAWSON, *Supt.*

J. A. ATKINSON, *M. F.*

W. A. BROWN, *Mgr.*

GLENDALE COLLIERY COMPANY

P. O., LAWTON, W. VA.

General Office, Glendale, W. Va.

No. 828. *Glendale or Buck Lick Mine.* Is a drift located on the Laurel Creek branch of the C. & O. R. R., four and one half miles from Quinnimont operating the Fire Creek seam about 3 feet 8 inches thick. Buck Lick was opened during the year and the others closed. Drainage and roof are good. Ventilation is produced by an eight and one three foot fan which give good results. The mine is located about two and one half miles from monitor place and coal is hauled by a steam locomotive and a six ton gasoline motor. The law is complied with in all respects.

C. C. BEURY, *Mgr.*

G. L. MORGAN, *M. F.*

C. B. HELWIG, *Supt.*

QUINNIMONT COAL COMPANY.

P. O., LAWTON, W. VA.

General Office, Quinnimont, W. Va.

No. 829. *Big Q and Lick Branch Mines.* Are drifts located on the Laurel Creek branch of the C. & O. R. R., five miles from Quinnimont operating the Fire Creek seam about 3 feet 10 inches thick. Ventilation is produced by one eight foot and one three foot disc fan which give good results. Roof is slate and usually good. Drainage is good and other conditions comply with the law.

J. C. GALLAUDETTE, *Mgr.*

EDWARD, GORDON, *M. F.*

——— RADER, *Supt.*

GREENWOOD COAL CO.

P. O. and General Office, Lawton, W. Va.

No. 830. *Greenwood Mines.*—Are drifts located on the Laurel Creek branch of the C. & O. R. R., five miles from Quinnimont operating the Fire Creek seam. The roof is slate and usually good. Drainage is good. Ventilation is produced by four three and one ten foot disc fans of which three three foot are on Mud Tunnel side. These do not give satisfactory results. A larger fan was ordered on my last visit to take place of these. Other conditions comply with the law.

W. A. BROWN, *Mgr. & Supt.*

J. H. WOOD, *Mine Foreman.*

HENRY PETERS, *Mine Foreman.*

HEMLOCK HOLLOW COAL CO.

P. O. and General Office, Lawton, W. Va.

No. 831. *Hemlock Mine.*—Is a drift located on the Laurel Creek branch of

the C. & O. R. R., six miles from Quinnimont operating the Fire Creek seam on the double entry system. Ventilation, on my last visit, was produced by a five foot disc fan located inside. This was to be a temporary arrangement until conditions for their ten foot fan was corrected. Roof is slate and usually good, drainage is good, and other conditions comply with the law.

W. A. BROWN, *Mgr.*

D. S. BROWN, *Mine Foreman.*

J. A. BROWN, *Supt.*

NEW RIVER & POCAHONTAS CONSOLIDATED COAL CO.

P. O., Layland, W. Va. General Office, Charleston, W. Va.

No. 832, *Layland Mines 1, 2 & 3.*—Are drifts located on Laurel Creek branch of the C. & O. R. R., seven miles from Quinnimont operating the Fire Creek seam on the two and three entry system. The roof in No. 3 is brittle and treacherous requiring careful timbering to keep in a safe condition. Drainage is good. Ventilation is produced by one sixteen and one eighteen foot Clifford Capel fans which give good results. All conditions comply with the law.

H. M. BERTOLET, *Gen. Supt.*

L. NAHODIL, *Gen. Foreman.*

A. K. WOOD, *Supt.*

JOHN McMILLAN, *Asst. Foreman.*

P. K. LYNCH, *Asst. Foreman.*

MARTIN UTTER, *Asst. Foreman.*

LOW MOOR IRON CO. OF VA.

P. O. KAY MOOR, W. VA.

General Office, Low Moor, Va.

No. 833, *Kay Moor No. 1 Mine.*—Is a drift located on the south side of New river on the C. & O. R. R., seven miles east of Hawks Nest operating the Sewell seam about three feet six inches thick. Ventilation is produced by an 8 ft 4 in. Sirocco fan which should give good results. Drainage is poor in parts of the mine. Roof is slate and generally good. An auxiliary air course is being driven from fifth right entry to the fan which should increase ventilation results throughout the mine.

C. E. WELD, *Mgr.*

A. B. REESE, *Mine Foreman.*

G. H. ESSER, *Supt.*

LOW MOOR IRON CO. OF VA.

P. O. ROYAL, W. VA.

General Office, Low Moor, Va.

No. 834, *Kaymoor No. 2 Mine.*—Is a drift located on the south side of New river on the C. & O. R. R., five miles east of Hawks Nest operating the Sewell seam about 3 feet 4 inches thick. Ventilation is produced by a 6 foot double inlet Jeffreys fan which gives good results. Roof is of a generally good slate. They are at present only operating the part of the mine that has broad gauge track in it.

G. E. NATTLETON, *Supt.*

M. H. BLYTHE, *M. F. & F. B.*

C. E. WELDE, *Mgr.*

BROWN COAL CO.

P. O. and General Office, Nuttallburg, W. Va.

No. 835, *Brown Mine.*—Is a drift located on the south side of New river on

the C. & O. R. R., eight miles east of Hawks Nest operating the Sewell seam. Ventilation is produced by two disc fans located inside which give fairly good results. Roof is slate and reasonably good. Drainage has been improved during the year. Other conditions comply with the law.

J. A. BOONE, *Mgr. & Supt.*

F. R. FRAZER, *Mine Foreman.*

BRANCH C. & C. CO.

P. O. and General Office, Elverton, W. Va.

No. 836. *Elverton Mine.*—Is a drift located on the south side of New river two miles west of Sewell Station, operating Sewell seam on the double entry system. Roof is good and drainage is reasonably good. Ventilation is produced by a ten foot Thayer fan which gives fairly good results. Number one mine is about finished. A few men in this mine are robbing the chain pillars. The ventilation in this part is created by natural conditions. Other conditions meet the requirements.

W. R. J. ZIMMERMAN, *Mgr. & Supt.*

W. D. CRICKMER, *Mine Foreman.*

M. M. ALLISON, *Fire Boss.*

SOUTH SIDE COMPANY.

P. O. and General Office, Caperton, W. Va.

No. 837. *South Side Mine.*—Is a drift located on the south side of New river on the C. & O. R. R., one mile west of Sewell Station, operating the Sewell seam about 4 feet thick. Roof is good. Drainage is moderate. Ventilation produced by two fans located inside which give general good results. Other conditions meet the requirements.

G. H. CAPERTON, SR., *Mgr.*

ROBERT BOYD, *Supt. & Mine Foreman.*

SCOTIA COAL & COKE CO.

P. O. and General Office, Rush Run, W. Va.

No. 838. *Brooklyn Mine.*—Is a drift located on the south side of New river on the C. & O. R. R., five miles west of Thurmond, operating the Sewell seam four feet thick. Roof in parts of the mine is bad slate, requiring care to keep it safe. Drainage is reasonably good. Ventilation is produced by one eight and one five foot fan giving fairly good results. Power is now furnished by a new 150 K. W. General Electric generator located at the mine instead of from Rush Run as previously.

G. H. CAPERTON, *Mgr.*

W. S. WILLIAMSON, *Mine Foreman.*

J. H. CARTER, *Supt.*

SCOTIA COAL & COKE CO.

P. O. and General Office, Rush Run, W. Va.

No. 839. *Rush Run Mine.*—Is a drift located on the south side of New river on the C. & O. R. R., two miles west of Thurmond operating the Fire Creek seam five and one-half feet thick. Roof is slate and drainage is good in parts working. Ventilation is produced by a seven foot Disc fan Once More and an eleven foot single inlet fan at Rush Run giving good results. Other conditions comply with the law.

E. E. LESLIE, *Fire Boss.*

G. H. CAPERTON, *Mgr. & Supt.*

WALTER CUTHBERTSON, *Mine Foreman.*

SCOTIA COAL & COKE CO.

P. O. and General Office, Rush Run, W. Va.

No. 840. *Red Ash Mine*.—Is a drift located on the south side of New river on the C. & O. R. R., three miles west of Thurmond operating the Fire Creek seam five and one-half feet thick. The roof is slate and good. Drainage is good in parts working. Water has given a great deal of trouble in the past year keeping parts of the mine drowned out. Ventilation is produced by a twelve foot single inlet fan which gives good results.

A new opening is being made on the west side of the old mine which shows four and one-half feet of coal. A tram road has been laid from an opening at the head of first right in the old mine to this new new mine.

G. H. CAPERTON, *Mgr. & Supt.*

J. W. CUTHBERTSON, *Mine Foreman.*

GEORGE THOBURN, *Fire Boss.*

THURMOND COAL CO.

CONCHO, W. VA.

General Office, Staunton, Va.

No. 841. *Thurmond No. 1 or Concho Mine*.—Is a drift located on the south side of New river one mile west of Thurmond on the C. & O. R. R., operating the Sewell seam on the double entry system. During the year drainage has been improved considerably. Roof is slate and brittle in parts of the mine. Ventilation is produced by an eight foot Disc fan which gives good results. No. 4 drift, a new opening, is ventilated by a 6 foot Thayer fan installed during the year which gives good results.

H. B. SPROUL, *Mgr.*

T. E. MARONEY, *Mine Foreman.*

G. SMITH, *Supt.*

THURMOND COAL CO.

General Office, Staunton, Va.

No. 842. *Thurmond No. 2 or Erskine Mine*.—Is a drift located on the south side of New river on the C. & O. R. R., one mile west of Thurmond operating the Fire Creek seam about 3 feet thick. Very little work is being done. I made three visits to this mine during the year and never found more than three men employed.

H. B. SPROUL, *Mgr.*

G. SMITH, *Supt.*

N. R. & P. C. C. CO.

P. O. MINDEN, W. VA.

General Office, Charleston, W. Va.

No. 843. *Minden No. 2 Mine*.—Is a drift located on the Minden branch of the C. & O. R. R., three miles from Thurmond operating the Sewell seam five feet thick. Ventilation is produced by two ten foot Thayer fans which give good results. Drainage is good. Roof is bad in parts requiring care and attention. Other conditions comply with the law.

H. M. BERTOLET, *Mgr.*

J. A. FORBES, *Mine Foreman.*

JOHN CLAPPERTON, JR., *Supt.*

N. R. & P. C. C. CO.

P. O. MINDEN, W. VA.

General Office, Charleston, W. Va.

No. 844. *Minden No. 3 Mine*.—Is a drift located on the Minden branch of the C. & O. R. R., four miles from Thurmond operating the Sewell seam about five feet thick. Ventilation is produced by a sixteen foot double inlet Clifford Capel fan which gives good results. Roof is bad in parts. Drainage is good. Other conditions comply with the law.

H. M. BERTOLET, *Mgr.*D. C. LINSEY, *Mine Foreman*.JOHN CLAPPERTON, JR., *Supt.*M. P. BROWN, *Fire Boss*.*N. R. & P. C. C. CO.*

P. O. MINDEN, W. VA.

General Office, Charleston, W. Va.

No. 845. *Minden No. 4 Mine*.—Is a drift located on the Minden branch of the C. & O. R. R., four miles from Thurmond operating the Sewell seam about 4 feet 6 inches thick. Roof is bad in parts. Drainage is good. Ventilation is produced by a fifteen foot Clifford Capel fan which gives good results. A new steel tippie and link belt conveyor between No. 3 and No. 4 mines of four thousand tons capacity has been completed during the year.

H. M. BERTOLET, *Mgr.*WM. ROTHWELL, *Mine Foreman*.JOHN CLAPPERTON, JR., *Supt.*WM. HASLAN, *Fire Boss*.ED. MOONEY, *Fire Boss*.*N. R. & P. C. C. CO.*

P. O. MINDEN, W. VA.

General Office, Charleston, W. Va.

No. 846. *Minden No. 5 Mine*.—Is a drift located on the Minden branch of the C. & O. R. R., three miles from Thurmond operating the Sewell seam. Ventilation is produced by a fifteen foot Clifford Capel fan which gives good results. Roof is generally good. Drainage is good. Other conditions comply with the law.

H. M. BERTOLET, *Mgr.*JOHN LINDLEY, *Mine Foreman*.JOHN CLAPPERTON, JR., *Supt.*JAMES ASCOUGH, *Fire Bos*.JOHN RASTRON, *Fire Boss*.*RALEIGH COUNTY.**STONEWALL COAL & COKE CO.*

P. O. and General Office, Terry, W. Va.

No. 847. *Terry Mine*.—Is a drift located on the C. & O. R. R., on the south side of New river two miles west of Prince, operating the Fire Creek seam on the double entry system. Ventilation is produced by two Disc fans which give good results. Roof is slate and good. Drainage is good. Other conditions comply with the law.

F. M. LEE, *Mgr. & Supt.*W. H. CROSS, *Mine Foreman*.W. L. MARTIN, *Fire Boss*.

STONEWALL COAL & COKE CO.

P. O., STONEWALL, W. VA.

General Office, Terry, W. Va.

No. 848. *Stonewall No. 1 & 3 Mines.*—Are drifts located five miles from Prince on the Piney branch of the C. & O. R. R. Number one operates the Sewell seam five feet thick. Pillar robbing is the principal part of the work going on. Ventilation is produced by a six foot home made fan which owing to poorly constructed stoppings and cramped air ways does not give the best results. Drainage is poor and the roof very brittle. Number three operates the Fire Creek seam and is ventilated by a five foot fan driven by electricity, which gives moderate results. This mine employs but few men, eleven on my last visit. Roof is generally good and drainage moderate. Other conditions comply with the law.

F. M. LEE, *Mgr.*E. B. HURT, *Mine Foreman.*J. A. BRUBECK, *Supt.**WRIGHT COAL & COKE CO.*

P. O. PACK, W. VA.

General Office, Wright, W. Va.

No. 849. *Wright No. 2 Mine.*—Is a drift located on the Piney branch of the C. & O. R. R., two miles from Prince operating the Fire Creek seam. Ventilation is produced by an eight foot steam driven fan which gives good results. During the year considerable improvement in ventilation has been made. Roof is slate and good. Drainage is good. Other conditions meet the requirements.

WM. HORNSBY, *Mine Foreman.**WRIGHT COAL & COKE CO.*

P. O. PACK, W. VA.

General Office, Wright, W. Va.

No. 850. *Wright No. 1 Mine.*—Is a drift located on the Piney branch of the C. & O. R. R., three miles from Prince operating the Fire Creek seam. Ventilation is produced by an eight foot fan which gives general good results. Roof is slate and good. Drainage is good. Other conditions comply with the law.

A. BOYD, *Supt.*J. P. DONALDSON, *Mine Foreman.*P. P. CHRISTIAN, *Pres.*

NINTH DISTRICT.

GENERAL SUMMARY FOR THE NINTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYEES.								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,200 lbs.
Fayette..... (Part)	29	10	1,244	338	119	639	2,310	462	53	515	2,855	2,384,575	57,951
Raleigh..... (Part)	24	19	1,290	433	132	660	2,515	298	-----	298	2,813	2,568,441	-----
Total.....	53	29	2,534	771	251	1,299	4,855	760	53	813	5,668	4,953,016	57,951

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

Beckley, W. Va., September 30, 1912.

HON. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

DEAR SIR:—I herewith respectfully submit to you my annual report as Inspector of the Ninth Mining District of West Virginia for the year ending June 30, 1912.

During the year I made two hundred and twenty-five regular mine inspections and thirty-three special visits. The special visits were made for the purpose of investigating cause of fatal accidents and to see if recommendations that I had recommended were being complied with, chiefly in reference to dry and dusty sections of the mines.

Many of the fatal accidents that have occurred in the Ninth District could have been averted if proper care had been exercised. Some of them have been due to recklessness and carelessness in not posting or setting sprags. The minor accidents also could have been avoided. Some of the accidents have been through using short fuse, others by drilling holes out that have missed firing. This is a most dangerous practice and there ought to be a law prohibiting any miner from so doing under a penalty. All places where they have missed shots should be fenced off and stand twelve hours at least. Then the official in charge should go into the said working place and instruct the miner where to drill his

hole so that it will not intersect the one that is already charged and that has missed going off.

Reckless motor running is another cause, jumping on cars while in motion. If workmen in general would be a little more thoughtful and work more on the line of safety, by so doing would greatly reduce the accidents in our mines.

I am pleased to say that the Raleigh Mining Institute at Raleigh still hold their weekly meetings and is doing good both to the officials and miners who are members.

The New River Colliery Company established a Mining Institute at Searbro with a membership of fifty. S. A. Scott, Gen. Mgr., Pres. John Porter, V. P., H. M. Baker, Secy., Dr. Price, Chief Instructor, first aid. If officials at each mining camp would take a little more interest in establishing mining classes, it would be the means of doing a great amount of good.

I am pleased to say that I have had the co-operation of mine officials and the miners in assisting me in my official duties and thank one and all for so doing. I also wish to thank you as Chief of the Department of Mines for the wise counsel and courteous assistance you have given me.

Yours respectfully,

LANCE B. HOLLIDAY,

Inspector Ninth District.

FAYETTE COUNTY.

MACDONALD COLLIERY COMPANY.

MACDONALD, W. VA.

General Office of Company, Macdonald, W. Va.

No. 901. *Macdonald Mine*.—This mine is located 10 miles south of Thurmond on the Loop Creek branch of the C. & O. R. R. Drift opening operating the Sewell seam, double entry system. Thickness of vein 1 foot. Roof not good on the left; only moderate drainage. This mine is non-gaseous. Ventilation not good. Haulage done from the cross entry workings to main parting by motor and 16 mules; from there to tippie by endless rope. Ventilation produced by a 6 foot fan, electrically driven, only giving moderate results.

The mining laws not complied with. 100 coke ovens attached to this plant. 75 in blast.

S. A. SCOTT, *Gen. Mgr.*

B. C. SHOEMAKER, *Supt.*

W. D. LEWIS, *Mine Foreman.*

SUGAR CREEK COAL & COKE COMPANY.

MOUNT HOPE, W. VA.

General Office of Company, Mount Hope, W. Va.

No. 902. *Sugar Creek 1, 2 & 3*.—These are slope mines located at Mount Hope on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam, double entry system. Workings in No. 1 all on the retreat robbing pillars. Moderately good roof; thickness of vein 5 feet, 6 inches. Drainage good. Ventilation produced by 7 foot fan electrically driven.

No. 2 Mine.—The roof in this mine is not good, full of slips and of a brittle nature. Average thickness of coal 5 feet 8 inches. Moderate drainage; mine ventilated by furnace. Main and tail rope haulage, and mules. No motors.

No. 3 Mine.—Has not been worked any for ten months on account of water. The mining laws complied with.

ENOCH SMITH, *Pres. & Mgr.*

ALLEN HOFFER, *Mine Foreman.*

N. S. BLAKE, *Supt.*

WHITE OAK FUEL COMPANY.

WHIPPLE, W. VA.

General Office of Company, Macdonald, W. Va.

No. 903. Whipple Mine.—This is a shaft mine located at Whipple four miles from White Oak Junction on the White Oak branch of the C. & O. R. R., operating the Sewell seam, double entry system. Thickness of vein, 3 feet, 9 inches. Roof in general is good. This is a gaseous mine and requires every attention. Some sections of the mine are dry and dusty, but are watered down. The airways are in a poor condition caused by bad drainage and falls of slate. The officials attention has been called to improve these conditions. There are 52 pick and machine miners working. Haulage is done by motors and 21 mules. Ventilation is produced by 18 foot Capel force fan.

S. A. SCOTT, *Gen. Mgr.*

ISAAC PELTER, *Mine Foreman.*

JOHN PORTER, *Supt.*

WILLIAM SCOTT, *Fire Boss.*

THOMAS HOWE, *Fire Boss.*

WHITE OAK FUEL COMPANY.

CARLISLE, W. VA.

General Office of Company, Macdonald, W. Va.

No. 904-905. Carlisle and Oakwood.—These are shaft mines located at Carlisle on the White Oak branch of the C. & O. R. R., operating the Sewell seam on the triple and double entry system. They are gaseous mines. Second and Third Rights working places and roads leading thereto get dry and dusty and have to be kept watered down. The drainage on Main South not good. 5th and 6th South on my last inspection got a squeeze on where pillar robbing was being done. Thickness of coal on an average about 4 feet. Good roof. Mining done by 55 pick miners. No machine mining. 23 day hands inside. 8 drivers.

In Oakwood there are 62 pick miners and 6 machine miners. 19 day hands, 9 drivers. Average thickness of coal about 4 feet, 3 inches. Roof in general is good. Pillars are being drawn 1st, 3rd, 4th and 5th Rights. Ventilation produced by 18 foot Capel fan exhaust.

S. A. SCOTT, *Gen. Mgr.*

W. N. RIGG, *Supt.*

CARLISLE MINE.

WILLIAM PILKINGTON, *Mine Foreman.*

SAMUEL SELKIRK, *Fire Boss.*

WILLIAM STUART, *Fire Boss.*

OAKWOOD MINE.

JAMES BAIN, *Mine Foreman.*

EDWARD SAUNDERS, *Fire Boss.*

WILLIAM STEWART, *Fire Boss.*

WHITE OAK FUEL COMPANY.

WINGROVE, W. VA.

General Office of Company, Macdonald, W. Va.

No. 906. *Wingrove*.—This is a shaft mine located at Wingrove, one mile west of White Oak Junction on the White Oak branch of the C. & O. R. R., operating the Sewell seam, double entry system. Thickness of vein 4 feet, 4 inches; roof not good, especially on the left of Main North. This is a gaseous mine. The bad drainage in this mine has caused on several occasions during the year accumulation of gas at the face of 4th left entry. The airways in general are poor, both on the left and right off main entry. Ventilation produced by a 20 foot Robinson fan, steam driven. The mining laws not complied with.

S. A. SCOTT, *Gen. Mgr.*JOHN PORTER, *Supt.*JOHN R. PORTER, *Mine Foreman.*EMMETT LIVELY, *Asst. M. F.*WILLIAM HERON, *Fire Boss.*B. F. WRISTON, *Fire Boss.*

WHITE OAK FUEL COMPANY.

SCARBRO, W. VA.

General Office of Company, Macdonald, W. Va.

No. 907. *Scarbrow Mine*.—This is a shaft mine located at Scarbro, two miles west of Glen Jean on the White Oak branch of the C. & O. R. R., operating the Sewell seam on the double entry system. Thickness of coal 4 feet. Roof in general is good. On my last inspection of this mine found an accumulation of gas on the gob of 2nd Right where pillars were being robbed. This section of the mine gets dry and dusty, requires to be watered down. This mine has been connected up with the Wingrove mine by the main south west entry of Scarbro being cut through into main north entry of Wingrove. Number of pick miners employed is 43. Machine miners 23. Drainage in this mine is fairly good. Ventilation produced by an 18 foot Capel force fan.

S. A. SCOTT, *Gen. Mgr.*JOHN PORTER, *Supt.*JOHN R. PORTER, *Mine Foreman.*JOHN ERVINGTON, *Fire Boss.*ROBERT LAMBIE, *Fire Bos.*

PRUDENCE COAL COMPANY.

PRUDENCE, W. VA.

General Office of Company, Prudence, W. Va.

No. 908. *Jones 1 & 2*.—These are drift openings seven miles south of Thurmond, on branch line of the Loop Creek branch of the C. & O. R. R. at Harvey, operating the Sewell seam on the double entry system. Thickness of coal 4 feet, 3 inches. The roof on the left of No. 1 main is of a soapy and jointy heavy drawslate and requires very careful timbering. The roof on the right is good. The roadways in this mine during the year have been much improved. The workings in No. 2 principally robbing pillars. Ventilation produced by a 7 foot home made fan. The coal from these mines are dumped at Prudence tipple.

W. E. DEEGAN, *Manager.*J. W. WEDGWOOD, *Supt.*W. E. PATTERSON, *Mine Foreman.*

PRUDENCE COAL COMPANY.

PRUDENCE, W. VA.

General Office of Company, Prudence, W. Va.

No. 908. *Lassau Mine*.—This is a drift opening located on Big Loop Creek, six miles south of Thurmond, branch line of the Loop Creek branch of the C. & O. R. R. at Harvey, operating the Sewell seam on the double entry system. Thickness of coal 4 feet, 2 inches. Roof not good. Heavy jointy draw slate. 26 pick miners and 11 machine miners working at this mine. Drainage only moderate. Ventilation produced by a 10 foot Cone fan. The main entry has been very much improved during the year by relaying the track and cleaning the sides of roadway of slate.

W. E. DEEGAN, *Manager*.P. J. ROBERTSON, *Mine Foreman*.J. W. WEDGWOOD, *Supt.*

PRUDENCE COAL COMPANY.

PRUDENCE, W. VA.

General Office of Company, Prudence, W. Va.

No. 908. *Prudence A, B & C*.—These are of a series of drift openings located at Prudence five miles south of Thurmond on branch line of Loop Creek branch of the C. & O. R. R. at Harvey, operating the Sewell seam on the double entry system, intersecting each other. Section B has not worked any for the past four years. C, all the working in this section is pillar robbing. Bad roof. The workings of A, development going on on the left and robbing pillars on the right off third right. This mine is damp throughout, ventilation not good. Thickness of vein 4 feet, 4 inches. Good roof. Ventilation produced by 7 foot Covington fan, steam driven.

W. E. DEEGANS, *Manager*.JOHN KENNEDY, *Mine Foreman*.J. W. WEDGWOOD, *Supt.*

STUART COLLIERY COMPANY.

LOCHGELLY, W. VA.

General Office of Company, Macdonald, W. Va.

No. 909. *Lochgelly Mine*.—This is a shaft mine located at Lochgelly, nine miles west of Glen Jean on the White Oak branch of the C. & O. R.R. In last year's report this mine was called Stuart, operating the Sewell seam on the double entry system. Thickness of coal 4 feet. Taking the general character of the roof throughout the mine it is not good. This is a gaseous mine, west side of the mine especially. During the year the water rose up on the west side on account of the pumps getting out of repair, causing the ventilation to be cut off. In consequence I found a large accumulation of gas in this section of the mine. This section of the mine has not worked any for a long time. The return airway on the west is in a bad condition. The present workings are all on the east side. The main east entry 2nd, 3rd, 4th and 5th rights have been idle for a long time. There are 11 pick miners, 51 machine miners employed. Haulage is done by 1 10-ton motor and 4 4-ton gathering motors. Pick miners are paid 50 cents a car. Machine miners are paid 40 cents a car. Machine cutters for cutting 12 cents a car.

The prepared coal from this mine goes by the C. & O. R. R. Run of mine

on the Virginian R. R. Ventilation produced by 18 x 7 ft. 6 in. fan, exhaust. Depth of shaft 575 feet.

S. A. SCOTT, *Gen. Mgr.*

JOHN POWELL, *Mine Foreman.*

J. K. HOBAUGH, *Supt.*

GUS PILLING, *Fire Boss.*

THOS. FREEKELTON, *Fire Boss.*

STUART COLLIERY COMPANY.

PARRAL, W. VA.

General Office of Company, Macdonald, W. Va.

No. 910. *Summerlee Mine.*—Last year's report this mine was called Parral. It is a shaft mine located at Parral eight miles from Glen Jean on the White Oak branch of the C. & O. R. R., operating the Sewell seam double entry system. Thickness of vein 4 feet, good roof. This is a gaseous mine and liberates gas freely in all working places on the right off the west side, also on the left off the east, and requires the ventilation to be kept close up to the face. Mimmig done by coal cutting machines exclusively. No pick miners. The upcast or exit way leading to the upcast is in a deplorable condition. On my last visit recommended that this be repaired and have immediate attention. Ventilation produced by an 18 foot Capel fan, exhausting.

S. A. SCOTT, *Gen. Mgr.*

GEO. W. ARTZ, *Mine Foreman.*

J. K. HOBAUGH, *Supt.*

CON. WEARMOUTH, *Fire Boss.*

JAMES POWELL, *Fire Boss.*

TURKEY KNOB COAL & COKE COMPANY.

MACDONALD, W. VA.

General Office of Company, Turkey Knob, W. Va.

No. 911. *No. 1, 2 & 3 Hickory Branch Mines.*—These are drift openings intersected with each other, operating the Sewell seam on the double entry system. Thickness of coal 4 feet, 4 inches. Roof good. This mine is damp throughout. Ventilated by a 5 foot Exhaust fan electrically driven. The coal from these mines is dumped at Turkey Knob tippie.

J. E. BEURY, *Manager.*

J. M. PRICE, *Mine Foreman.*

J. G. THAYER, *Supt.*

TURKEY KNOB COAL & COKE COMPANY.

MACDONALD, W. VA.

General Office of Company, Turkey Knob, W. Va.

No. 912. *Turkey Knob Mine.*—This is a drift opening located at Turkey Knob, 10 miles south of Thurmond on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam on the double entry system. Thickness of coal, 4 feet, 8 inches. Roof not good in sections of the mine. The mine is damp throughout. Ventilation only moderate. Ventilation produced by a 17 foot force fan. Have recommended this fan to be placed at the back of main entry and let it exhaust which would improve the ventilation. There are 51 pick miners employed. Haulage done from inside parting to tippie by endless rope; inside by 1, 10 ton Goodman motor and 3, 5-ton gathering motors and 7 mules. There are 100 coke ovens connected with this operation all in blast.

J. E. BEURY, *Manager.*

J. M. PRICE, *Mine Foreman.*

J. G. THAYER, *Supt.*

LAUREL MINING COMPANY.

RED STAR, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 913. *Laurel Mine*.—This is a drift mine located at Red Star, on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam. Thickness of coal 5 feet. The workings of this mine all on the retreat, robbing pillars; roof on the right of Main entry good; on the left the roof is full of slips and a heavy draw slate. Haulage is done by main and tail rope from inside parting to tippie; inside to parting by mules. Drainage not good. Ventilation produced by 12 foot Force fan giving moderate results.

THOS. NICHOLS, *Mgr.*A. L. NELSON, *Supt. & Mine Foreman.*

MEADOW FORK COAL COMPANY.

MINE POST OFFICE, NEWLYN, W. VA.

General Office of Company, Newlyn, W. Va.

No. 914. *Meadow Fork Mine*.—This is a drift opening located at Meadow Fork on the C. & O. R. R. Loop Creek branch, operating the Sewell seam double entry system. Average thickness of coal 5 feet. Bad treacherous roof. The floor is of a soft clay nature. The mine is damp throughout, non-gaseous. Haulage inside by mules to main entry parting. Main rope is attached to 15 ton steam locomotive which pulls the loads to the outside parting, then to the incline. Ventilation produced by furnace giving only moderate results.

EDWARD THOMAS, *Mgr.*HOGUE MEADOWS, *Mine Foreman.*

DUNLOOP COAL & COKE COMPANY.

DUNLOOP, W. VA.

General Office of Company, Macdonald, W. Va.

No. 915. *No. 2, 3, 4, 5 & 6 Dunloop Mines*.—These are a series of drift openings located at Dunloop on the Loop Creek branch of the C. & O. R. R., nine miles south of Thurmond, operating the Sewell seam on the double entry system.

No. 1 mine reported in last year's annual report is worked out.

No. 2, 3, 4 and 6 openings are connected up with each other. Average thickness of coal about 5 feet 4 inches. The roof in No. 4 and 6 is not good, heavy draw slate. On the right of No. 6 as soon as the rooms are driven up the pillars are brought back. The workings in No. 3 and 4 chiefly pillar robbing. No. 2 mine the roof in general is good. Ventilation produced by a 10 foot homo-made fan, force. Have recommended the officials to make this exhaust so as to give better results.

No. 5 Mine. This is a new mine, commenced to ship coal February last. Thickness of coal 5 feet 4 inches. Good roof. The coal from this mine is taken through No. 4 mine then No. 2. The mine ventilated by a 5 foot fan electrically driven. Coal from 2, 3, 4, 5 and 6 dumped at the same tippie. Improvements. New tippie has been erected at Dunloop, equipped with boom headed flight loafers and shaking screens, driven by electricity, attached with a pan conveyor 153 feet long with a capacity of 2000 tons per day.

S. A. SCOTT, *Gen. Mgr.*R. J. MORTON, *Mine Foreman.*THOMAS D. THOMAS, *Supt.*A. C. MORTON, *Asst. M. F.*

MOUNT HOPE COAL & COKE COMPANY.

MOUNT HOPE, W. VA.

General Office of Company, Mount Hope, W. Va.

No. 916. *Baby Mine*.—This is a slope mine located at Mount Hope on the Price Hill branch, branch of the C. & O. R. R., operating Sewell seam double entry system. Thickness of vein 5 feet, 8 inches; had roof. Moderate drainage. Main rope haulage from inside main entry to tippie. Inside haulage done by mules. Ventilation produced by 6 foot fan steam driven.

T. C. BAILEY, *Manager*.T. L. PUGH, *Mine Foreman*.*MCKELL COAL & COKE COMPANY.*

DERRYHALE, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 917. *Derrydale Mine*.—This is a drift opening located at Derrydale on the K. G. J. & E. R. R. and branch of the C. & O. R. R., operating the Sewell seam on the double entry system. Vein 4 feet, 6 inches thick; roof not good; heavy draw slate and full of slips and very treacherous in places, and requires careful posting. Mining is done by pick and mine machines. Shot firers are employed where machine cutting is done. Haulage done by Rack rail motors and mules; drainage good. Ventilation produced by an 8 foot Thayer fan exhausting, giving good results. Mining laws complied with.

THOS. NICHOLS, *Gen. Mgr.*H. M. HASTING, *Mine Foreman*.LEWIS LEWIS, *Supt.**MCKELL COAL & COKE COMPANY.*

KILSYTHE, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 918. *Kilsythe Mine*.—This is a drift opening located at Kilsythe on the K. G. J. & E. R. R., operating the Sewell seam on the triple and double entry system. Average thickness of coal 4 feet, 6 inches; taking the general character of the roof, it is good throughout the mine. This mine is non-gaseous. No. 2 and 3 main entries not working on account of scarcity of miners. There are 92 pick miners and 40 machine miners working on my last inspection. Pick miners are paid 40 cents per ton. Machine miners are paid same price for cutting and loading and doing all dead work; all dry and dusty sections are constantly watered down; average daily tonnage 800 tons. The mining laws are fully observed and carried out.

THOMAS NICHOLS, *Gen. Mgr.*J. W. WARREN, *Mine Foreman*.H. H. O'NEAL, *Supt.*JOE HARLAND, *Asst. Mine Foreman*.*NICHOL COLLIERY COMPANY.*

GLEN JEAN, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 919. *Nichol Mine*.—This is a drift mine located at Glen Jean on the Loop Creek branch of the C. & O. R. R., and K. G. J. & E. R. R., operating the Sewell seam double entry system. Thickness of coal 4 feet, 6 inches. Roof in general is good. Mining done by 3 coal cutting machines. There are 35 machine miners who are paid 40 cents a car for loading. 9 cents per car paid to machine cutters for cutting. Haulage done by motors. No mules.

Ventilation good throughout the mine, produced by a 10 foot Cape fan exhausting. The mining laws fully carried out.

THOS. NICHOLS, *Mgr.*

NICK BARRON, *Mine Foreman.*

STANLEY SPOOR, *Supt.*

THOS. MASON, *Fire Boss.*

NEWLYN COAL COMPANY.

MINE P. O. NEWLYN, W. VA.

General Office of Company, Newlyn, W. Va.

No. 920. *Newlyn Mine.*—This is a drift mine having a series of openings located at Newlyn one mile south of Thurmond on the Loop Creek branch of the C. & O. R. R., operating the Fire Creek seam on the double entry system. This mine is very much troubled with faults. During the year they came in contact with a 7 foot down throw fault. On getting through the fault they struck good coal 3 feet, 2 inches thick. The roof in this mine is good. Inside haulage to the outside incline Monitor dump done by mules. Ventilation produced by a 5 foot Stine fan, driven by a Stover gasoline engine. Mining laws complied with.

EDWARD THOMAS, *Manager.*

H. P. THOMAS, *Supt. & Mine Foreman.*

HARVEY COAL & COKE COMPANY.

HARVEY, W. VA.

General Office of Company, Macdonald, W. Va.

No. 921. *Harvey 1 & 2 Mines.*—These are drift openings located at Harvey on the Loop Creek branch of the C. & O. R. R., five miles south of Thurmond operating the Sewell seam double entry system. Average thickness of coal 4 feet, 6 inches. Taking the general character of the roof throughout it is very good. Number of pick miners employed 47. Machine miners 21. Pick miners are paid 40 cents a ton. Machine miners 30 cents a ton for shooting and loading. Machine cutters 10 cents a ton. Haulage done by 5 motors and 20 mules. Ventilation produced by two 10 foot fans exhausting. There are 98 coke ovens connected with these mines. Only 42 of them in blast.

S. A. SCOTT, *Gen. Mgr.*

J. A. McALISTER, *Mine Foreman.*

J. K. GENTRY, *Supt.*

COLLINS COLLIERY COMPANY.

GLEN JEAN, W. VA.

General Office of Company, Macdonald, W. Va.

No. 922. *Collins No. 1, 2 and 3.*—These are a series of drift openings located at Glen Jean on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam. Thickness of coal 4 feet, 6 inches. Roof in general is not good. This mine is practically damp throughout. Ventilation produced by 16 foot Crawford McCrimmon exhaust fan.

No. 2 and 3 Mines. The workings of these mines are full on the retreat. Thickness of coal 4 feet, 6 inches. In No 2 section, roof is good. No. 3, the roof is not good, very jointy and a heavy draw slate and requires close and careful posting.

S. A. SCOTT, *Gen. Mgr.*

HENRY BLAKE, *Mine Foreman.*

J. K. GENTRY, *Supt.*

STAR COAL & COKE COMPANY.

RED STAR, W. VA.

General Office of Company, Red Star, W. Va.

No. 923. *Star Mine*.—This is a drift opening located at Red Star, six miles from Thurmond on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam double entry system. Thickness of vein 4 feet. This is a gaseous mine liberating from the coal and floor, but the working places are well ventilated and the gas giving off rendered harmless. This mine has a good roof. Shot fires are employed. Haulage done from main entry parting by main and tail rope to the outside. Inside by motors and mules. Ventilation produced by a 12 foot Capel exhaust fan. Mining laws fully observed and carried out.

GEORGE JONES, *Manager*.ANDY EASTON, *Mine Foreman*.DAVID EVANDALL, *Supt.*E. OWENS, *Fire Boss*.W. E. STOKES, *Fire Boss*.

DUNGLEN COAL COMPANY.

MINE P. O. THURMOND, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 924. *Dunglen No. 1 & 2*.—These are drift openings located at Dungen on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam, double entry system. Thickness of coal 4 feet, 4 inches. Roof not good; drainage only moderate. No dust in these mines; all roadways damp. Mining done exclusively by pick miners. Haulage inside by mules to the outside parting from where it is taken to the incline dump by a six ton gasoline motor. The mines are still in the hands of the Receiver.

W. E. DEEGAN, *Manager & Receiver*.WALTER BLAND, *Mine Foreman*.WILLIAM BROWN, *Supt.*

NEW RIVER COLLIERIES COMPANY.

POST OFFICE, SUN, W. VA.

General Office of Company, 165 Broadway, New York.

No. 925. *Sun 1, B & C*.—Shaft and slope mines located at Sun, 9 miles from Thurmond on the Loop Creek branch of the C. & O. R. R., operating the Sewell seam on the double entry system. Thickness of coal 5 feet; roof in sections good. These mines liberate gas. On my last inspection I found gas or the gob where pillars are being drawn on 9th left entry. The drainage is not good at the back of main entry 13th, 12th, 11th, 10th, 7th rights, also on 5th left off Tucker entry. The pumps in these mines are as follows:

3 Fairbanks Morse Pumps, size 5 ft. x 6 ft., 4 in. Suction, 3 in. discharge, 10 H. P. Motor.

1 Cuming Triplex 5 in. x 6 in., 2½ in. Suction, 2 in. discharge, 5 H. P. Motor.

1 Fairbanks Morse 4 in. x 6 in., 4 in. Suction, 3 in. discharge, 10 H. P. Motor.

3 Dean Triplex 8 in. x 8 in., 6 in. Suction, 5 in. discharge, 10 H. P. Motor.

1 Dean Triplex 7 in. x 10 in., 6 in. Suction, 5 in. discharge, 50 H. P. Motor.

1 Platt Triplex 3 in. x 6 in., 2½ in. Suction, 2 in. discharge, 10 H. P. Motor.

3 American centrifugal 2½ in. Suction, 2 in. discharge, 3 H. P.

2 Dean Steam Pumps 14 in. x 10 in. x 12 in., 6 in. Suction, 5 in. discharge.

A new pump house is being made in old 7th left for a large pump to deal with water. Black powder is almost exclusively used by the miners in blasting their coal.

Robbing pillars and where mining is being done by mine machines it is let to contractors who do all the dead work. There are 130 pick miners, 47 machine miners, 5 machine operators and 5 helpers, 95 day hands and 24 drivers. Ventilation produced by two fans, one force and one exhaust.

F. GUTERMAN, *V. P. & Gen. Mgr.* THOMAS MACKEY, *Mine Foreman.*

W. M. GILLIE, *Gen. Supt.* HARLEY DAVIS, *Asst. Foreman.*

M. E. KENT, *Supt.* WILLIAM COPE, *Fire Boss.*

WILLIAM WATSON, *Fire Boss.*

ALEX BRUCE, *Fire Boss.*

RALEIGH COUNTY.

CITY COAL COMPANY.

BECKLEY, W. VA.

General Office of Company, Beckley, W. Va.

No. 926. *Combs Mine*.—This is a drift opening located at Beckley on the P. R. & P. C. R. R., branch off the C. & O. R. R., at Beckley Junction, operating the Sewell seam double entry system. Thickness of coal 3 feet, 4 inches. Bad roof. 8 miners working in this mine. 50 cents per ton paid for mining. Moderate drainage. Ventilation produced by furnace. Mining laws complied with.

B. H. WHITE, *Mgr.* EDGAR E. HENDRICKSON, *Supt. & Mine Foreman.*

PRICE HILL FUEL COMPANY.

PRICE HILL, W. VA.

General Office of Company, Maconald, W. Va.

No. 927. *Price Hill Mine*.—This is a shaft mine located at Price Hill two and one-half miles from Maconald on the Price Hill branch of the Loop Creek branch of the C. & O. R. R., operating the Sewell seam on the double entry system. Since the improvements were made on the main entry there has been much development. In driving all entries two shifts. There are 35 pick miners employed and 23 machine miners. Pick miners paid 40 cents a ton. Machine miners paid same price for cutting and loading. Entry work one dollar to two dollars paid for taking bottom or top down. Average daily tonnage 275 tons. Ventilation produced by a 12 in. x 7 ft. 6 in. Capel force fan.

S. A. SCOTT, *Gen. Mgr.* D. J. JOHNSON, *Mine Foreman.*

WILLIAM FARRELL, *Supt.* WILLIAM STEPHENSON, *Fire Boss.*

RALEIGH COAL & COKE CO.

RALEIGH, W. VA.

General Office of Company, Raleigh, W. Va.

No. 928-929. *Raleigh No. 3 & 4 Mine*.—This is a drift mine located at Raleigh, 15 miles west of Prince on the Piney branch of the C. & O. R. R., operating the Beckley seam on the triple and double entry system. Average thickness of vein 5 feet. The grades are heavy in this mine. Haulage done

by two 6 ton gathering motors and 1 Main Rack rail motor. Mining done by both pick miners and coal cutting machines. This mine is damp throughout. Coal dumped at No. 1 tipple. Mining laws fully complied with.

ERNEST CHILSON, *Gen. Mgr.*

PETE EVANDALL, *Mine Foreman.*

J. P. WHITE, *Supt.*

RALEIGH COAL & COKE CO.

RALEIGH, W. VA.

General Office of Company, Raleigh, W. Va.

No. 930. *Raleigh No. 5.*—This is a drift opening located at Mabscott, 16 miles west of Prince and one mile from Beckley on the Piney branch of the C. & O. R. R., operating the Sewell seam on the double entry system. Thickness of coal averages about 3 feet 4 inches. Good roof. Drainage only moderate. Haulage done by mules. Ventilation produced by a 5 foot foreo fan, driven by compressed air. The mining laws complied with.

ERNEST CHILSON, *Gen. Mgr.*

JAMES A. HIGGINS, *Mine Foreman.*

J. P. WHITE, *Supt.*

RALEIGH COAL & COKE CO.

RALEIGH, W. VA.

General Office of Company, Raleigh, W. Va.

No. 931. *Raleigh No. 6.*—This is a drift mine with a series of drift openings located at Raleigh on Piney Creek, branch line of the Piney branch of the C. & O. R. R., operating the Beckley seam. Opened out on the four and double entry system. Average thickness of vein, 5 feet. Good roof. Have not detected any gas giving off in this mine. The drainage good. Mining done by both pick and machine miners. Great improvements have been made during the year at this mine on the haulage roads by putting in 60 pound steel rails and enlarging by ripping the top making more height. This mine is practically damp throughout. Car daily allotment 1500 tons. Haulage done by motors. Ventilation produced by two fans, one 10 feet and one, 11 feet driven by steam. Mining laws fully complied with.

ERNEST CHILSON, *Gen. Mgr.*

M. D. NIDIFFER, *Mine Foreman.*

J. P. WHITE, *Supt.*

SLAB FORK COAL COMPANY.

SLAB FORK, W. VA.

General Office of Company, Slab Fork, W. Va.

No. 932. *Slab Fork Nos. 1, 2, 3, 4 & 5.*—These are drift mines located at Slab Fork 50 miles east of Deepwater on the Virginian R. R., operating the Beckley seam.

No. 1 Mine.—The workings of this mine full on the retreat robbing pillars. Thickness of coal 5 feet; good roof. Moderate drainage. Ventilated by an 8 foot Thayer fan electrically driven.

No. 2 Mine.—Opened on the triple and double entry system. This is a gaseous mine, dry and dusty in sections. Thickness of coal 4 feet, 4 inches. Roof not good, jointy. The fault they struck in 5th left new extension has been driven about 800 feet and still in the fault. The drill holes have been put down 30 feet with no signs of coal. Mining is done both by pick and

machines. Haulage by motors and mules. Mines ventilated by an 8 foot fan exhausting, electrically driven.

No. 3 Mine.—Working on the double entry system. The main entry is in the lower vein of the Beckley seam up to the tunnel which was driven and caught the upper vein of the Beckley. The new development is being pushed by running two shifts in all entries. The vein makes a good percentage of round coal; average thickness 4 feet, 2 inches; roof not good. Ventilation produced by an 8 foot fan, electrically driven.

No. 4 Mine.—The workings of this mine lay between two faults. Main entry still driving along by the right hand side of fault. Rooms are laid off the air course on the left of main. These rooms are driven up to the fault on the left. Thickness of coal 3 feet, 8 in. to 4 feet; moderately good roof. Mine ventilated by a 24 inch fan electrically driven. The coal from No. 1, 2, 3 and 4 dumped at No. 1 tippie.

No. 5 Mine.—Opened on the double entry system; thickness of vein 3 feet, 8 inches; good roof. This mine is faulty. The coal in general is of a soft nature. Some of the rooms and roadways leading thereto get dry and dusty and require frequent watering. Drainage good. A new fan has been installed. Size 8 foot, electrically driven giving good results.

W. G. CAPERTON, *Manager.*

WM. HURT, *Supt.*

WILLIAM HURT, *Mine Fore. No. 1 & 4.*

A. E. FORD, *Mine Fore. No. 2.*

WILLIAM WATTIS, *Fire Boss.*

J. A. DAVIES, *Mine Foreman No. 3.*

W. M. WARWICK, *Mine Fore. No. 5.*

PEMBERTON COAL & COKE COMPANY.

AFFINITY, W. VA.

General Office of Company, Affinity, W. Va.

No. 933. *Pemberton No. 1 Mine.*—This is a slope and shaft mine, located at Affinity on Soak Creek, operating the Beckley seam, opened out on the triple and double entry system; average thickness of vein 4 feet; good roof. Mining done exclusively by mining machines. Some sections of the mine get dry and dusty but is promptly watered down. The ventilation produced by 10 foot Jeffrey Force fan, giving good results. Have not detected any gas on any of my inspections. The mining laws fully complied with.

W. A. PHILLIPS, *Gen. Mgr.*

F. H. CAMPBELL, *Mine Foreman.*

GEO. A. HINTERLITNER, *Supt.*

MCKELL COAL & COKE COMPANY.

P. O. OSWALD, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 934. *Tamroy Mine.*—This is a drift mine located at Tamroy on the K. G. J. & E. R. R., fifteen miles from Thurmond, branch of the Loop Creek branch of the C. & O. R. R., operating the Sewell seam on the three entry and double entry system; thickness of coal 4 feet 6 inches. The longwall on 1st South has been abandoned; roof in general not good. 3rd North and 1st South dry and dusty but is watered down. Mining done by pick and coal cutting machines. Haulage done by 5 Gathering motors and one 10 ton motor. No mules

Drainage good; ventilation produced by 12 foot Capel fan giving good results. Mining laws fully complied with.

THOMAS NICHOLS, *Mgr.*

I. J. BOYD, *Mine Foreman.*

C. G. BOYD, *Supt.*

MCKELL COAL & COKE COMPANY.

P. O. OSWALD, W. VA.

General Office of Company, Glen Jean, W. Va

No. 935. *Oswald and Sidney Mines.*—These are drift openings located at Oswald on the K. G. J. & R. R., branch of the Loop Creek branch of the C. & O. R. R., operating the Sewell seam, double entry system. Thickness of vein 3 feet, 10 inches. Roof not good. Drainage and ventilation good. Mining done by 27 pick miners who get 50 cents per car for room work and 60 cents for narrow work yardage paid \$2.25 for taking top or bottom. The mine is ventilated by 11 foot, 6 Capel fan giving good results.

Sidney Mine. This mine is opposite the Oswald mine operating the Sewell seam, thickness of coal 3 feet, 6 inches. Roof and drainage good. The coal from these two mines dumped at the one tippie. During the year a new Fairbanks Morse steel tippie has been erected capable of handling 1200 tons per day. Sidney mine the ventilation produced by a 11 foot, 6 Capel fan. The mining laws fully observed and carried out.

THOMAS NICHOLS, *Gen. Mgr.*

T. R. TOWNSEND, *Mine Foreman*

N. R. BALLARD, *Supt.*

MCKELL COAL & COKE COMPANY.

P. O. OSWALD, W. VA.

General Office of Company, Glen Jean, W. Va.

No. 936. *Graham No. 1 & 2.*—These are drift openings located at Graham on the K. G. J. & E. R. R., 14 miles from Thurmond, operating the Sewell seam double entry system. Thickness of coal No. 1, 4 feet. Rock roof on 1st and 2nd left. The other parts of the mine the roof is bad; heavy jointy treacherous draw slate. The mining is done on 1st and 2nd left by mine machines. The other sections all pick work. This mine is damp throughout. Ventilation produced by a nine foot Capel fan, electrically driven. Mining laws fully complied with.

No. 2 Mine idle all the year.

THOMAS NICHOLS, *Mgr.*

G. C. STONE, *Mine Foreman.*

C. G. BOYD, *Supt.*

BLUE JAY COAL & LUMBER COMPANY.

GLEN MORGAN, W. VA.

General Office of Company, Blue Jay, W. Va.

No. 937. *Blue Jay.*—This is a drift mine located at Dugout, 13 miles west of Prince on the Pincy branch of the C. & O. R. R., operating the Beckley seam. The workings of this mine all on the retreat, robbing pillars. Thickness of vein 4 feet, 9 to 5 feet. Bad roof; non-gaseous. Drainage good. Ventilation produced by an 8 foot Robinson fan, steam driven. Mining laws fully complied with.

P. C. LYNCH, *Manager.*

P. J. MCQUADE, *Mine Foreman.*

MABSCOTT COAL & COKE COMPANY.

MABSCOTT, W. VA.

General Office of Company, Maedonald, W. Va.

No. 938. *Mabscott No. 1 & 2*.—These are drift openings, located at Mabscott on the Piney branch of the C. & O. R. R., 16 miles west of Princee, operating the Sewell seam; double entry system. Thickness of coal 4 feet 3 inches. Bad roof, heavy jointy draw slate. This mine is troubled with rolls and faults; is damp moderately good on account of poor airways; ventilation produced by 8 foot Stine fan, exhausting. Haulage done by 1 main motor and 12 mules.

No. 2 Mine. Thickness of coal 4 feet, 4 inches. This mine is all damp throughout. On one of my inspections had to call the mine foreman's attention to break-throughs which were not being cut and started as required by law. The ventilation of this mine is produced by furnace which only gives moderate results. Roof is much the same character as in No. 1. The coal from these two mines dumped at the one tippie.

S. A. SCOTT, *Gen. Mgr.*ROBERT GRIFFITH, *Supt.*D. J. DAVIES, *Mine Foreman*.**BECKLEY COAL DELIVERY COMPANY.**

BECKLEY, W. VA.

General Office of Company, Beckley, W. Va.

No. 939. *Beckley Coal Delivery Mine*.—This is a slope mine operating the Sewell seam double entry, room and pillar system; thickness of vein 3 feet, 2 inches. Roof not good and damp throughout. This mine was operated by T. K. Laing and Company and in the month of July was sold and bought by B. H. White, who closed the mine down for an indefinite time.

E. E. WHITE COAL COMPANY.

GLEN WHITE, W. VA.

General Office of Company, Glen White, W. Va.

No. 940. *E. E. White No. 1 & 2*.—These are shaft mines located at Glen White, branch of the Virginian R. R., operating the Beckley seam triple and double entry system, room and pillar; thickness of coal No. 1 4 feet, 6 inches; good roof heavy grades in sections, panel entries are laid off at a distance 400 feet; all entries driven 11 feet wide, rooms 24 feet wide; pillars have been robbed on 1st North; drainage good.

No. 2 Mine. Thickness of coal 7 feet; good roof, pillars are being robbed 1st Pannel off 2 North and Second off Right No. 2 Main. These are gaseous mines but well ventilated. Haulage done by three 10 ton Westinghouse motors and two 6 ton gothering motors; 18 mules. Pick miners paid 70 cents a car loading coal. Machine miners 55 cents per car; machine cutters for cutting, three dollars per day.

Three phones are installed at these mines. The bottom phone is connected with the outside direct. The inside phones are connected to the outside by switch at the shaft bottom. This switch connects all phones on the Company's property; by calling up Stotesbury on the Gulf they are enabled to be connected up to the main line. It is the Company's intention to install three more phones in various parts of these mines. There are 109 pick miners, 26 machine miners

employed. Track layers are paid from \$2.25 to \$2.50. Drivers \$2.25 per day. Ventilation produced by 24 foot Guibal fan steam driven, exhausting. Average daily tonnage 1500 tons. Mining laws fully complied with.

E. E. WHITE, *Pres. & Mgr.*

FRANK McHUGH, *Mine Foreman.*

JOHN McHUGH, *Fire Boss.*

JAMES MAYNOR, *Fire Boss.*

CHARLES KLOUGER, *Fire Boss.*

BECKLEY COAL & COKE COMPANY.

WICKHAM, W. VA.

General Office of Company, Macdonald, W. Va.

No. 941. *Beckley Mine.*—This is a slope mine located at Wickham on the Piney branch of the C. & O. R. R., 17 miles from Prince, operating the Sewell seam on the double entry system. Thickness of vein averages about 4 feet. Roof on the north side of mine is good. Rock heading and main straight working places. The roof is not good. The main dip entry workings were stopped for several months during the year on account of inrush of water from the pillar workings.

Mining is done chiefly by pick miners. Haulage done by 3 motors and 16 mules. Ventilation produced by a 12 foot force fan, giving good results.

S. A. SCOTT, *Gen. Mgr.*

JOHN SHEARERS, *Mine Foreman.*

ROBERT GRIFFITHS, *Supt.*

THOS. ROBERTSON, *Asst. Mine Fore.*

WILLIAM FENWICK, *Fire Boss.*

SULLIVAN COAL & COKE COMPANY.

SULLIVAN, W. VA.

General Office of Company, Sullivan, W. Va.

No. 942. *No. 1, 2, 3, 4 & 5 South Mines.*—These are a series of drift openings intersecting each other located at Sullivan on the Piney branch of the C. & O. R. R., operating the Beckley seam of the double entry system. Thickness of coal 4 feet. These mines are troubled very much with rolls and faults. The roof in general is good throughout. Ventilation produced by one 8 foot and one 6 foot fan, exhausting, giving good results. Mining laws complied with.

J. A. WOOD, *Manager.*

FRANK BEARD, *Supt. & Mine Foreman.*

SULLIVAN COAL & COKE COMPANY.

SULLIVAN, W. VA.

General Office of Company, Sullivan, W. Va.

No. 942. *3rd, 4th and 5th North Mines.*—These are drift mines intersecting each other, located at Sullivan on the north side of Takein branch, operating the Beckley seam, double entry system. No. 3 Main entry driven up to fault; pillars robbed on the right. No. 4 Entry, the coal runs very irregularly in thickness, also the grades. No. 5 Main entry dipping at the face about 12 per cent. Section of coal at the face, 1 foot, 6 inches; top coal, 1 foot, 6 inches rock. 3 feet bottom coal, rock roof on the left off No. 6 entry. The rooms driven off same are troubled by two rolls which are bearing towards No. 5 entry taking the average thickness of coal about 3 feet. These mines are damp

throughout. Ventilation produced by two fans, one 8 foot and one 5 feet, giving good results.

No. 1 Main North only two miners working driving a pair of entries on the left for drainage.

No. 2 North, 5 miners working on pillars on the retreat. This mine is also faulty. The coal from all the openings both on the north and south sides is dumped at the one tippie. Mining laws complied with.

J. A. WOOD, *Mgr.*

DAVID MILLER, *Mine Foreman.*

FRANK BEARD, *Supt.*

WOOD PECK COAL COMPANY.

SULLIVAN, W. VA.

General Office of Company, Sullivan, W. Va.

No. 943. *Wood Peck Mine.*—This is a drift opening located at Sullivan, branch line off the Piney branch at Raleigh of the C. & O. R. R., operating the Beckley seam double entry system. The seam is on average 3 feet, 9 inches. Good roof. Moderate drainage. All coal ways damp. Workings all lie on the left of main entry; across entries 400 feet apart dipping to the face. Poor ventilation, which is produced by furnace. Have recommended that a fan be installed so as to comply with the mining laws. 14 miners employed. Commenced to ship coal August 19th, 1911.

L. M. PECK, *Mgr.*

W. M. BARTON, *Mine Foreman.*

CRANBERRY FUEL COMPANY.

P. O. SPRAGUE, W. VA.

General Office of Company, Macdonald, W. Va.

No. 944. *Sprague Mine.*—This is a slope mine located at Sprague one mile from Beckley on the P. R. & P. C. R. R., operating the Sewell seam double entry system. Thickness of coal 3 feet, 8 inches, and is very faulty and full of rolls. Roof not good in sections. This mine is damp throughout, bad drainage and poor ventilation caused by the airways from one panel to the other being obstructed with falls of slate and water. Have recommended that the airways be cleaned and water drained out so as to improve the ventilation. Main rope haulage from inside parting to tippie. Inside done by one gathering motor and 12 mules. Ventilation produced by 8 foot Exhaust fan. Mining laws not complied with.

S. A. SCOTT, *Gen. Mgr.*

W. S. FINK, *Mine Foreman.*

WILLIAM GRIFFITH, *Supt.*

CRANBERRY FUEL COMPANY.

CRANBERRY, W. VA.

General Office of Company, Macdonald, W. Va.

No. 945. *Cranberry and Prosperity.*—These are shaft mines located at Cranberry six miles from Beckley on the P. R. & P. C. R. R., branch line of the C. & O. R. R., at Beckley Junction, operating the Sewell seam on the double entry system. Thickness of coal in Cranberry, 4 feet, 2 inches. Roof is very jointy and a heavy draw slate. Thickness of coal in Prosperity 3 feet 10 inches; 6 to 8 inches draw slate. These are gaseous mines. Coal from Prosperity is hoisted up the Cranberry shaft. There are 54 pick miners and 24

machine miners employed. Pick miners are paid 50 cents a car, and machine miners who do their own cutting and loading 50 cents a car. Haulage done by one 15 ton and one 8 ton, and one 6 ton Westinghouse motors and 20 mules. Drainage only moderate. Ventilation produced by 18x7-6 Capel force fan. Mining laws complied with. Average daily tonnage 450 tons.

S. A. SCOTT, *Gen. Mgr.*

JAMES GRAINGER, *Mine Foreman.*

WILLIAM GRIFFITHS, *Supt.*

WILLIAM BLADES, *Fire Boss.*

WILLIAM BOTTON, *Fire Boss.*

NEW RIVER COLLIERIES COMPANY.

P. O. ECCLES, W. VA.

General Office of Company, 165 Broadway, New York.

No. 946. *Eccles No. 1 & 2.*—These are shaft mines located at Eccles but have been abandoned. All the pumps and other material have been drawn out of the mine.

NEW RIVER COLLIERIES COMPANY.

P. O. ECCLES, W. VA.

General Office of Company, 165 Broadway, New York.

No. 947. *Eccles 3 & 4.*—These are shaft mines located at Eccles on the Virginian R. R., 37 miles east of Deepwater, operating the Beckley seam double entry system. Section of vein, 5 feet top coal; 10 inches slate parting, 2 feet 2 inches bottom coal. Roof sand rock. These are gaseous mines. All stoppings put in are of brick and cement. Shot firers are employed who examine all holes before being charged and who fire all shots instead of the miners. Drainage, main pumps one 12x22x18 Pressure Pattern Plunger Scranton Steam Pump, pumping fresh water from rings in shaft to fresh water tank. Head of water 491 feet. The same size of pump is used for pumping water out of sump to surface.

Two Cameron Regular Pattern Piston Pumps size 18x18x13. Head of water 491 feet used as relay or breakdown to the Scranton pumps. Ventilation produced by 16 foot Capel force fan. These mines are more or less damp throughout. Average daily tonnage 750 tons. Coal is being shipped by the Virginian and C. & O. Railroads.

W. M. GILLIE, *Supt. Supt.*

THOS. A. LEWIS, *Mine Foreman.*

THOS. PETOSKI, *Supt.*

JOHN RICHARDSON, *Fire Boss.*

NEW RIVER COLLIERIES COMPANY.

P. O. ECCLES, W. VA.

General Office of Company, 165 Broadway, New York.

No. 948. *No. 6 Mine.*—Operating the Sewell vein double entry system, section-slate roof, bone 6 inches; coal 4 feet 8 inches clean. Stoppings in this mine also put in with brick and cement. The roof in some sections is bad, jointy and requires careful posting. Dry and dusty in rooms off 1st south but is watered down. There are employed 70 pick miners and 34 machine miners. Pick miners paid 40 cents a car. Machine miners paid 25 cents for loading machine cutting coal. Distance between panels 550 feet. Entries 50 feet centers. Entries driven 10 feet wide, width of rooms 24 feet. Machine cutters paid \$3.00 and helpers \$2.50 a day. Drainage. Mine water is

pumped by a small No. 2 Cameron pump and allowed to flow down to Beckley seam into No. 5 Mine. Haulage done by one 13 ton Westinghouse and six 5 ton Goodman gathering motors. No mules. Average daily tonnage 600 tons. The mining laws are fully observed and carried out at all these mines.

F. GUITERMAN, *V. P. & Gen. L Mgr.* ODEY WILLIAMS, *Mine Foreman.*

W. M. GILLIEL, *Gen. L Mgr.*

JAMES BUCHANAN, *Fire Boss.*

THOS. C. PETOSKI, *Supt.*

JAMES GOLDEN, *Asst. Supt.*

NEW RIVER COLLIERIES COMPANY.

P. O. ECCLES, W. VA.

General Office of Company, 165 Broadway, New York.

No. 949. *Eccles No. 5 & 6.*—These are shaft mines located three-fourths of a mile northeast of No. 3 and 4, both shafts sunk down to the Beckley seam.

No. 5 Mine operating the Beckley vein double entry system. Section of vein, top coal 1 foot; bone 2 inches, coal 2 feet 3 inches; slate parting 8 inches, bottom coal 2 feet, 4 inches. Roof sand rock. Posting in rooms done by timbermen. Shot firers are employed; Monobel powder used exclusively. This mine liberates gas in all working places and is a damp mine throughout. All stoppings put in by brick and cement. Drainage by two 7x10 Triplex electrically driven Deane Pumps. Head of water 520 feet. Pumping from Sump to surface. Two Regular pattern Cameron Piston Pumps. Size 18x18x13. Head of water 520 feet pumping from sump to surface.

One 7x10 Triplex electrically driven Deane Pump, located at Sewell seam pumping fresh water from rings to water tank on hill. Head of water 367 feet. Haulage done by one 13 ton Westinghouse and three 5 ton gathering motors and 8 mules. Mining done by both pick miners and machine miners. Ventilation produced by 16x6 foot Capel fan, steam driven.

No. 6 Mine operating the Sewell seam double entry system. The low section of coal runs 4 feet, 5 inches clean; medium section, bone 2 inches, coal 4 feet 8 inches. High section, bone 7 inches; coal 4 feet 11 inches. Roof not good, heavy jointy draw slate. Mine water is pumped by a small No. 2 Cameron pump and allowed to flow down in to Beckley seam of No. 5 mine.

F. GUITERMAN, *V. P. & L Gen. L Mgr.*

THOS. PETOSKI, *Supt.*

W. M. GILLIEL, *Gen. L Supt.*

JAMES GOLDEN, *Asst. Supt.*

No. 5 MINE.

JOSEPH BISHOP, *Mine Foreman.*

JOHN PHILLIPS, *Fire Boss.*

JOHN SCOTT, *Fire Boss.*

WILLIAM GREY, *Shot Inspector.*

No. 6 MINE.

ODEY WILLIAMS, *Mine Foreman.*

STEVE FROMM, *Fire Boss.*

JAMES BUCHANAN.

PINEY MINING COMPANY.

STANAFORD, W. VA.

General Office of Company, Charleston, W. Va.

No. 950-951. *Piney No. 1, 2 & 4.*—In last year's report these mines were

called Stanaford 1, 2 and 4. They are drift openings. 1 and 2 are located at Stanaford and No. 4 at Knob Branch on the Piney Branch of the C. & O. R. R., operating the Beckley seam double entry system. Liberates gas in No. 1 and 2 from the coal and feeders giving off from the floor. Have not detected any gas in No. 4 mine at any of my inspections. Average thickness of coal 4 feet 8 to 4 feet 10 inches. Good roof and good drainage. New inside haulage is being driven for the coal to come out opposite the tippie which will dispense with the present outside haulway and be the means of increasing the output. Total length of new haulway will be 3700 feet. A ditch is also being driven between 1 and 2 openings 15 feet below the Beckley seam for better drainage of these two mines. Distance of ditch will be about 2000 feet. Safety powder is used exclusively in these mines. Ventilation produced by a 10 foot Sirocco fan. Mining laws carried out in No. 1 and 2 mines.

JAMES STIRRET, *Mgr.*

F. R. CLARKE, *Mine Foreman.*

C. M. BINFORD, *L. Supt.*

WILSON SMITH, *Fire Boss.*

No. 4 Mine.

M. P. CAMPBELL, *Mine Foreman.*

PINEY MINING COMPANY.

RILEY, W. VA.

General Office of Company, Charleston, W. Va.

No. 952. *Piney No. 3.*—This is a drift opening located at Riley, three miles northeast of Beckley. The tippie is one and three-fourths miles from mine, situated on the Piney Branch of the C. & O. R. R., operating the Sewell seam double entry system. Thickness of coal 4 feet, 4 inches. Roof not good, of a brittle jointy nature. Good drainage. Haulage inside done by mules and one 10 ton Jeffrey motor to the outside parting and from there to incline by a 16 ton Porter Steam Locomotive. Ventilation produced by a 7 foot 6 in. Thayer fan electrically driven. Mining laws fully complied with.

JAMES STIRRET, *Mgr.*

F. R. CLARKE, *Mine Foreman.*

C. M. BINFORD, *Supt.*

WILSON SMITH, *Fire Boss.*

LANARK COAL COMPANY.

LANARK, W. VA.

General Office of Company, Lewisburg, Va.

No. 953. *Lanark No. 4 Mine.*—This is a drift opening located on the Piney branch of the C. & O. R. R. Tippie 12 miles from Beckley, operating the Sewell seam double entry room and pillar system. Thickness of coal 4 feet, 4 inches. Bad roof. Mining is all pick work. Drainage good. 30 pick miners. Mule haulage to partings. Ventilation produced by 8 foot Stine fan electrically driven, giving good results. Mining laws fully complied with.

No. 3 mine worked out.

J. B. LAING, *Manager.*

THOMAS MORGAN, *Mine Foreman.*

TENTH DISTRICT.

GENERAL SUMMARY FOR THE TENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.			EMPLOYES.									Production of	
	No. of Openings.	No. of Persons Killed.	Inside.						Outside.			Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,200 lbs.
Mercer.....	22	23	1,465	340	55	671	2,531	452	215	667	3,198	2,783,866	189,200
McDowell.....	21	28	1,203	1,022	76	585	2,886	650	443	1,093	3,979	3,298,567	275,153
(Part)													
Raleigh.....	11	8	666	141	39	307	1,153	207	-----	267	1,360	1,252,120	-----
(Part)													
Total.....	54	59	3,334	1,503	170	1,563	6,570	1,309	658	1,967	8,537	7,334,553	464,353

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

Bluefield, W. Va., July 15, 1912.

HON. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

DEAR SIR:—I have the honor to herewith submit my annual report as Mine Inspector of the 10th Mining District of West Virginia for the year ending June 30, 1912.

During the past year I have made 253 inspections and seventeen special visits and reports of each have been forwarded to your office for permanent file. Included in these inspections several of them have been made in the Eleventh District on instructions from your office from time to time. These special visits, as you know, were made for the purpose of investigating fatal and non-fatal accidents, following up recommendations, etc., etc.

In addition to my inspection work, I have assisted in conducting examinations for mine foremen and fire bosses at various times during the year.

The number of fatal and non-fatal accidents that have occurred in this District during the year have been reported to your office and a detailed statement of same appears elsewhere in this report and it will be seen by close scrutiny, that a majority of the accidents are due to carelessness on the part of the persons killed or injured. There is but one solution to this problem, or rather to reduce the number of personal injuries, and that is *STRICT DISCIPLINE* on

the part of the mine officials and *STRICT OBEYANCE* to their instructions given to the employes.

I have made an effort to visit and inspect all of the mines in this District as prescribed by law, but in some instances it has been impossible on account of the number of mines and on account of a great many of them requiring from two to three days to make a single inspection.

The number of prosecutions for violating the mining laws and the instructions of the inspector, this year, were not so great by any means as that of the previous year and I believe that the excessive number of prosecutions last year, which were of course advertised, has a great effect in preventing violations hence prosecutions this year.

The majority of the operators throughout the Tenth District, I am pleased to report have installed a system, of different kinds at the various places to keep their mines in a safe and sanitary condition and it has been working most satisfactorily. The dust problem is being watched carefully and steam radiators, water sprays, steam lines, water lines, salt and other remedies have been applied to keep the dust moistened. In some of the mines, electric pumps, hose and rotary sprays are attached to water cars to be used in moistening the mines.

It gives me pleasure to report that the operators, managers, superintendents, foremen and miners as a general proposition have extended me courtesies, by way of assisting in bettering the conditions and their co-operation is responsible for the improved methods and general conditions at the mines this year and I desire to publically extend to all of them my sincere thanks.

In conclusion, I wish to thank you as Chief of the Department of Mines for the able assistance and courteous treatment I have received at your hands during the past year, as well as ever since I have been connected with the Department.

Respectfully submitted,

ARTHUR MITCHELL.

Inspector of the Tenth District.

E. E. WHITE COAL COMPANY.

P. O. STOTESBURY, W. VA.

No. 1001. *No. 3 Mine.*—This is a drift mine located at Stotesbury on the Winding Gulf branch of the Virginian Railroad, sixteen miles from Mullins. This mine will have the benefit of the Virginian and C. & O R. R. It operates the Beckley seam, and is 4 to 6 feet thick at this point.

During the present year, a Link-Belt Conveyor has been installed and the Steam Hoist dispensed with. One 150 H. P. Westinghouse motor has been installed to run the Conveyor line, and one 15 H. P. motor to drive the Picking table. On last inspection, these improvements were giving good results. Ventilation is produced by a 16 foot fan which gives ample ventilation for the number of men employed in the mine. 16 men are employed in this mine, producing about 100 tons per day. Roof, timbering, stoppings and drainage in good condition. Haulage is done by electric locomotive and mules. Clay is

used for tamping. Rules are posted. Stretchers, blankets, safety, lamps, record books and all necessary supplies are kept on hand as the law requires.

E. E. WHITE *Gen Mgr.*

JESSE BLAKE, *Mine Foreman.*

C. R. STAHL, *Mining Engineer.*

J. E. VIRGIN, *Asst. Mine Foreman.*

E. E. WHITE COAL COMPANY.

P. O. STOTESBURY, W. VA.

No. 1001. *No. 5 Mine.*—This is a drift mine recently opened in the same lease as No. 3 Mine. It is operating the Beckley seam on the double entry system. It is 6 feet high, employing 52 men inside. On my first inspection to this mine the state law was being violated on ventilation. All the men were withdrawn out of the mine till such a time as the ventilation was restored by a fan. On making the next examination, the fan had been installed in thirty-six hours after leaving the mine. My recommendations were strictly carried out. Clay was also recommended to be used for tamping and short fuse to be abandoned in the mine entirely. The full length of the fuse must be used at all times. Ventilation, drainage, roof, timbering and stoppings in good condition. Haulage is done by locomotives and mules. This coal is delivered to the same tippie as No. 3 mine. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

E. E. WHITE *Gen Mgr.*

JESSE BLAKE, *Mine Foreman.*

C. R. STAHL, *Mining Engineer.*

J. E. VIRGIN, *Asst. Mine Foreman.*

RALEIGH COUNTY.

E. E. WHITE COAL COMPANY.

P. O. STOTESBURY, W. VA.

No. 1001. *No. 6 Mine.*—This is a drift mine recently opened in the same as Nos. 3 and 5 mines. It is operating the Beckley seam on the double entry system. It is 4 feet 10 inches high, employing 5 men inside at time of examination. Sufficient amount of timber on hand and complies with the law in all respects.

E. E. WHITE, *Gen. Mgr.*

JESSE BLAKE, *Mine Foreman.*

C. R. STAHL, *Mining Engineer.*

GULF SMOKELESS COAL COMPANY.

P. O. TAMS, W. VA.

No. 1002. *Tams No. 1 Mine.*—This mine is situated on the Winding Gulf branch of the Virginian Railway in Raleigh county, and is thirteen miles from the main line at Mullens. This mine ships its coal over the Virginian and the C. & O. R. R. It is operating in the Beckley seam, being a drift opening and is 10 feet high at this point. Ventilation is produced by a 6 foot fan which gives a sufficient amount of air at the present time but the Company is going to install a larger fan in the near future, so as to overcome any obligations that might arise. This mine has always been found in a first-class condition in regard to timbering, roof, drainage and stoppings. 166 men are employed inside and produce about 2000 tons per day. Clay is used for tamping. Haulage is performed by electric motors and mules. Rules are posted. Stretchers,

blankets, safety lamps, record books and all necessary supplies are kept on hand to meet the requirements of the law.

W. P. TAMS, *Gen. Mgr.*

ADAM LINDLEY, *Mine Foreman.*

ANDY CHAMBERS, *Asst. Mine Foreman.*

GULF SMOKELESS COAL COMPANY.

P. O. TAMS, W. VA.

No. 1002. *Tams No. 1 Mine.*—This is a drift opening operating in the Beckley seam on the branch line of the Virginian Railway in Raleigh county. This mine delivers its coal to the same tippie as No. 1. It is 10 feet high at this point. Ventilation is produced by a furnace at the present time. On the last inspection of the mine, preparations were being made to install a fan. 36 men are employed at this mine on the inside, producing about 400 tons per day. Haulage is done by electric locomotives. All pick mining and permissible explosives are used all over the property to blast coal. Timbering, drainage, roof, stoppings are in good condition. Rules are posted. Clay is used for tamping. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand to meet the requirements of the law.

W. P. TAMS, *Gen. Mgr.*

ADAM LINDLEY, *Mine Foreman.*

ANDY CHAMBERS, *Asst. Mine Foreman.*

GULF SMOKELESS COAL COMPANY.

P. O. TAMS, W. VA.

No. 1002. *Tams No. 2 Mine.*—This is a drift opening operating in the Beckley seam in the same lease as Nos. 1 and 2 mines. It also delivers its coal to the same tippie as No. 1. Height of coal at this point is 6 feet, 6 inches. Ventilation is produced by a furnace at present but will soon be replaced by a fan. 41 men are employed in this mine producing about 400 tons per day. Haulage is done by electric locomotives. All pick mining, and permissible exbering, darinage and stoppings in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

W. P. TAMS, *Gen. Mgr.*

ADAM LINDLEY, *Mine Foreman.*

JAS. DAWSON, *Asst. Mine Foreman.*

MCALPIN COAL COMPANY.

P. O. MCALPIN, W. VA.

No. 1003. *McAlpin Nos. 1 & 2 Mines.*—These are drift mines located at McAlpin on the Winding Gulf branch of the Virginia Railway. It operates the Beckley seam, being 6 feet high and is opened on the four entry and panel system. 130 men are employed inside the mine, prodneing a daily output of about 1500 tons. With a full supply of men is capable of producing 2000 tons per day. Ventilation is produced by an 18 foot double Clifford fan which will give ample ventilation to work out the lease. Roof, timbering, drainage and stoppings in good condition. Haulage is performed by electric locomotives and mules.

During the past year a great many improvements have been made. There has been a two inch water line laid through the mine to keep the dust watered down. A Jeffrey Conveyor, two 150 H. P. steam boilers of the Goodman type,

one Generator 200 K. W. of the Goodman type, two general electric haulage motors 6 tons each, two Westinghouse haulage motors 6 tons each. Also, a Green Car Hoist has been erected which on the last inspection all the machinery was found in good condition.

Two Punching machines and one Electric Coal Cutting machine have also been put in.

Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

JOHN LAING, *Gen. Mgr.*

DAVE LAING, *Mine Foreman.*

WILL LAING, *Supt.*

G. R. WADDELL, *Asst. Mine Foreman.*

BAILEY WOOD COAL COMPANY.

P. O. McALPIN, W. VA.

No. 1004. *Bailey Wood No. 1 Mine.*—This mine is located at McAlpin on the Winding Gulf branch of the Virginian Railway sixteen miles from Mullens. It is a drift opening operating the Beekley seam which is 5 feet thick. 90 men are employed, producing about 600 tons per day. Ventilation is produced by a ten foot fan divided into two separate currents of air which gives ample ventilation. This mine has been troubled by heavy rises and very heavy dips, resulting in a tunnel having to be cut 400 feet long through the solid rock to overcome the grades in the mine. On the last examination the mine was found to be in a first class condition in all respects. Timbering, roof, drainage and stopping in good condition. Haulage is done by electric motors and mules. The mine is kept in a moist condition by sprinkling. All raises workings are kept wet by watering. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

THOS. NICHOL, *Gen. Mgr.*

C. B. BRYANT, *Mine Foreman.*

J. C. BAKER, *Supt.*

JOHN ERNEST, *Asst. Mine Foreman.*

PEMBERTON COAL & COKE COMPANY.

P. O. HOTCOAL, W. VA.

No. 1005. *Big Stick Mine.*—This mine has recently opened and is located on the branch line of the Virginian Railway about seventeen miles from Mullens. It is a drift mine operating the Beekley seam which is 5 feet, 8 inches at this point. Ventilation is produced by a ten foot fan which is sufficient. 56 men are employed in this mine, producing about 800 tons per day.

A fan has been recently installed. One ten ton haulage motor, General electric type, is used in this mine. On all examinations this mine has always been found in good condition, complying with the law in all respects.

D. PHILLIPPS, *Gen. Mgr.*

CHAS. RHODES, *Mine Foreman.*

G. A. HETTERLIGNER, *Supt.*

H. BAIRD, *Asst. Mine Foreman.*

GULF COAL COMPANY.

P. O. HOTCOAL, W. VA.

No. 1006. *Gulf Mine.*—This mine is located in the Beekley seam on the Winding Gulf branch of the Virginian Railway seventeen miles east of Mullens. The coal at this point is from 5 to 6 feet thick. Ventilation is produced by a

seven foot fan, distributed through the mine in one current. The average number of men employed is 44, producing about 300 tons per day. Haulage is done by electric locomotives and mules.

Roof, timbering, drainage and stoppings in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

R. D. PATTERSON, *Gen. Mgr.*

WASH LILLY, *Mine Foreman.*

HARVEY INGLES, *Supt.*

GULF COAL COMPANY.

P. O. HOTCOAL, W. VA.

No. 1006. *Beaver Mine.*—This mine is located on the Winding Gulf branch, of the Virginian R. R., 17 miles east of Mullens, operating the Beckley seam, double entry system. It is 3 feet 6 inches high. This mine will soon connect with the Gulf mine. Ventilation is produced by a furnace. Roof, timbering, drainage and stoppings in good condition. Haulage is by mules. This mine meets with all the requirements of the law.

R. D. PATTERSON, *Gen. Mgr.*

HARVEY INGLES, *Supt.*

LYNWIN COAL COMPANY.

P. O. WINDING GULF, W. VA.

No. 1007. *Lynwin No. 1 Mine.*—This is a slope mine located at Goodwin on the Winding Gulf branch of the Virginian R. R., 21 miles from Mullens. It operates the Beckley seam on the double entry system. The height of the coal at this place is 5 feet 6 inches, employing 66 men inside with a daily output of 700 tons per day. Ventilation is produced by a seven foot fan, which is well distributed throughout the mine. All stoppings along the main and cross entries are built of concrete. On each examination at this mine, it has been kept in a moist condition and properly cleared up. Roof, drainage and timbering in good condition. Haulage is done by gasoline locomotives and mules.

During the past year there have been installed, one 150 H. P. Atlas boiler, one 75 K. W. Generator of the Western Electric Company, one Deepwell Pump, Wieman make, one 6 ton Gasoline motor built by Geo. D. Whitcomb, one 30 H. P. Hoisting Engine, used to haul their coal from the dip workings.

Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

E. J. FLANNIGAN, *Supt.*

W. L. TURPIN, *Mine Foreman.*

P. C. LYNCH, *Gen. Mgr.*

WINDING GULF COLLIERY COMPANY.

P. O. WINDING GULF, W. VA.

No. 1008. *No. 1 Mine.*—This mine is located on the head-waters of the Winding Gulf, on a branch line of the Virginian R. R., 21 miles from Mullens. It operates the Beckley seam and is 4 feet, 6 inches high at this point, and is troubled somewhat with rolls making it inconvenient for working. 70 men are employed, producing about 400 tons per day. Ventilation is produced by a 16 foot Capell fan, which will give ample ventilation for the lease if properly

conducted. On last examination, the mine was found commencing to become dry, dusty and dirty, probably caused by the changes which had been made during the previous months. Attention was called to the foreman that the entries must be cleaned up, and assurance was given that it would be done. Haulage is done by electric motors and mules and the coal is mined with machines. Roof drainage and timbering in good condition. Stoppings and brattice in poor condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps and all necessary supplies are kept on hand as the law requires.

JUSTUS COLLINS, *Gen. Mgr.*

C. W. BAILEY, *Mine Foreman.*

WM. J. ELGIN, *Supt.*

WINDING GULF COLLIERY COMPANY.

P. O. WINDING GULF, W. VA.

No. 1008. *No. 2 Mine.*—This is a shaft and slope mine, located on the C. & O. R. R., and on the West Fork of the Winding Gulf branch, 21 miles east of Mullens. It operates the Beckley seam and is 5 feet high at this point. 50 men are employed inside, producing about 500 tons per day. Ventilation is produced by two small fans, one 5 feet, and the other 3 feet, which in the near future will be replaced by a larger fan. On last inspection to this mine, they were still hoisting the coal out of the slope, and were working on the shaft preparing it for operation.

Improvements at the mine, one Goodman 5 ton locomotive; one 5 ton General Electric Motor; two Breast Coal Cutting Machines of the Goodman type; one Sullivan Breast Machine.

Haulage is done by rope, electric motors and mules. Roof, drainage and timbering in good condition. Mine well watered at all times. Stoppings and brattice in good condition. The foreman of the mine takes great care to keep the mine in a first class condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

JUSTUS COLLINS, *Gen. Mgr.*

JOHN HANCOCK, *Mine Foreman.*

WM. J. ELGIN, *Supt.*

WINDING GULF COLLIERY COMPANY.

P. O. WINDING GULF, W. VA.

No. 1008. *No. 3 Mine.*—This is a slope mine located across the ravine, from No. 1 mine which is operated in the Beckley seam and is about 5 feet high at this point, and which at some time will be connected with the No. 2 mine. Only a few men were employed in the mine on last inspection. This coal was delivered by motor across the ravine to No. 1 tippie. Ventilation, roof, drainage, timbering in good condition and the mine meets the requirements of the law.

JUSTUS COLLINS, *Gen. Mgr.*

C. W. BAILEY, *Mine Foreman.*

WM. J. ELGIN, *Supt.*

MERCER COUNTY.

MILL CREEK COAL & COKE CO.

COALDALE, W. VA.

No. 1009. *Coaldale Mine.*—Located on the main line of the N. & W. R. R.

It is a drift mine operating in the No. 3 Pocahontas seam, which is 8 feet 4 inches thick. Ventilation is produced by an eighteen foot fan. It is divided into two separate currents. This mine is on the retreat, employing at present fifty men on inside. Average output about 300 tons per day. On account of the height of the coal seam and the frail nature of roof the recovery of coal is difficult and dangerous. There are timber men employed to do all timbering for the miners. Every care is taken to avoid accidents. Haulage is done by electric motors and mules. Miners are supplied with clay for tamping. Sufficient props and caps are kept on hand at suitable lengths. Rules are posted. Stretchers, blankets, safety lamps are kept on hand and all other necessary supplies to comply with the law.

EDWARD COOPER, *Gen. Mgr.*

J. W. JOHNSON, *Mine Foreman.*

C. E. F. BURNLEY, *Gen. Mgr.*

J. W. JOHNSON, *Mine Foreman.*

MILL CREEK COAL & COKE CO.

P. O. COOPERS, W. VA.

No. 1010. *Mill Creek East Mine.*—Located across the narrow ravine from the West Mine, it being directly opposite. It is a drift mine in the No. 3 Pocahontas seam. The ventilation is produced by a sixteen foot fan which gives sufficient air. This mine is confined to robbing of pillars. There are 33 men employed inside of the mine. Haulage is done by steam locomotive and mules. The roof is very dangerous and great care has to be taken in order to protect the miners. Timber men are employed to do all timbering for the miners. Average output about 150 tons per day. Miners are supplied with clay for tamping. Sufficient props and caps are kept on hand at a suitable length. Rules are posted. Stretchers, blankets, and safety lamps are kept on hand and all other necessary supplies to comply with the law.

EDWARD COOPER, *Gen. Mgr.*

J. W. JOHNSON, *Mine Foreman.*

C. E. F. BURNLEY, *Gen. Supt.*

TOBE NICEWANDER, *Asst. Mine Fore.*

MILL CREEK COAL & COKE CO.

P. O. COOPERS, W. VA.

No. 1010. *Mill Creek West Mine.*—Is located near Coopers on the main line of the N. & W. R. R. It is a drift opening in the No. 3 Pocahontas seam. The coal is ten feet thick of which two feet is left up to support the roof. At my last inspection of this mine, there were only sixteen men employed on the inside. This mine is on the retreat and the coal is delivered to the Coaldale tippie. Average output is about 120 tons per day. Ventilation is produced by a ten foot fan and is conducted through the working places in one single current, and is well distributed. Haulage is done by electric motors and mules. The roof is frail and requires careful attention. Miners are supplied with clay for tamping. Sufficient props and caps are kept on hand at suitable lengths. Rules are posted. Stretchers, blankets, and safety lamps are kept on hand, and all necessary supplies to comply with the law.

EDWARD COOPER, *Gen. Mgr.*

J. W. JOHNSON, *Mine Foreman.*

C. E. F. BURNLEY, *Gen. Supt.*

MAY WILLIAMS, *Asst. Mine Foreman.*

MILL CREEK COAL & COKE CO.

P. O. COOPERS, W. VA.

No. 1010. *West Fork Mine.*—This is a drift mine located on the N. & W.

R. R., one mile from Coopers, which is operating No. 3 Pocahontas seam. It is confined principally to pillar workings. The coal is nine feet thick. The mine employs, on last inspection, 37 men. The output of this mine is about 250 tons per day. The roof is very poor. Drainage is good at all points except where the over-lying strata is broken. The miners are well supplied with timber and timber men employed to set all timber. The foreman of the mine takes great pleasure in seeing that the rules are strictly enforced. Ventilation is produced by a nine foot fan which gives ample ventilation. Haulage is done by electric motors and mules. Clay is used for tamping. Rules are posted. Stretchers, blankets, and safety lamps are kept on hand, and all necessary supplies so as to comply with the law.

EDWARD COOPER, *Gen. Mgr.*

J. W. JOHNSON, *Mine Foreman.*

C. E. F. BURNLEY, *Gen. Supt.*

JESSE JARVERS, *Asst. Mine Foreman.*

MILL CREEK COAL & COKE CO.

P. O. COOPERS, W. VA.

No. 1010. *Tug River Mine.*—This mine is located on the head waters of Tug River. It is a drift opening in the No. 3 Pocahontas seam which is 10 feet, 6 inches thick, 2 feet of which is left up for to support the roof. The over-lying strata is very soft and the coal is left to protect it. There are 56 men employed inside the mine, producing a daily output of 300 tons. Ventilation is produced by a 10x5 Jeffrey fan which gives ample ventilation. The air is conducted to the face of the workings by concrete stoppings built on all entries. This mine has always been found in a satisfactory condition. Haulage is performed by electric motors, mules and steam locomotive. This coal is delivered to the Mill Creek tippie. The Supt. of the mine takes great pleasure in seeing that all rules are strictly enforced. Rules are posted. Stretchers, blankets, and safety lamps are kept on hand and all necessary supplies so as to comply with the law.

EDWARD COOPER, *Gen. Mgr.*

H. L. PRICE, *Mine Foreman.*

C. E. F. BURNLEY, *Gen. Supt.*

OWEN PRICE, *Asst. Mine Foreman.*

BUCKEYE COAL & COKE CO.

P. O. FREEMAN, W. VA.

No. 1011. *The Buckeye North Mine.*—This mine is located on the Widemouth Division of the N. & W. R. R., two miles from Simmons. It is a drift mine operating the No. 3 Pocahontas seam, the average height being 5½ feet thick. Ventilation is produced by an eighteen foot fan which gives good results for the number of men employed inside the mine. The output of this mine is about 300 tons per day. The workings are very wet at intervals, caused by heavy rains from the breaks in the mountain. Drainage is good. Haulage is performed by steam locomotives and mules. Roof is good in some places while in others it is very brittle. Miners are well supplied with timber at suitable lengths. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, and mine foreman's record book kept on hand to comply with the law.

J. C. PACK, *Gen. Mgr.*

J. H. WILLIAMS, *Mine Foreman.*

F. R. HEWITT, *Supt.*

E. W. PRICE, *Asst. Mine Foreman.*

BUCKEYE COAL & COKE CO.

P. O. FREEMAN, W. VA.

No. 1011. *Buckeye South Mine*.—This mine is located on the Widemouth Division of the N. & W. R. R., two miles from Simmons. It is a drift mine operating the No. 3 Pocahontas seam, the average height being 5 feet 6 inches. 102 men are employed in this mine, producing a daily output of 500 tons. Ventilation is produced by a six foot fan, the current being divided into three separate splits, and which gives ample ventilation. The coal is hauled from this mine by steam locomotives and mules and delivered to the same tippie as the North Mine. This mine has a very bad roof which requires very careful attention. The miners are well supplied with timber, props, and caps at suitable lengths. Drainage is good. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps and all necessary supplies are kept on hand, and the law is fully complied with.

J. C. PACK, *Gen. Mgr.*J. H. WILLIAMS, *Mine Foreman.*F. R. HEWITT, *Supt.*W. R. FOSTER, *Asst. Mine Foreman.***BOOTH-BOWEN COAL & COKE.**

P. O. FREEMAN, W. VA.

No. 1012. *Booth-Bowen Mine*.—This mine is located on Simmons Creek about three miles from Simmons. It is a drift opening operating the No. 3 Pocahontas seam, the average height being 6 feet. The ventilation is produced by a twenty foot fan. The current of air is distributed throughout the mine by four splits, by the means of over-casts and regulators. There are 103 men employed inside of the mine, the output being about 850 tons per day. The haulage is performed by steam locomotives and mules. The roof is good in some parts of the mine and very poor in other parts. This mine has considerable trouble with water caused by the breaks in the mountain, but it is well taken care of by the pumps and drainage. The mine officials take great pleasure in complying with the state law in all respects. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps and all necessary supplies are kept on hand, and the law is fully complied with.

HARRY BOWEN, *Gen. Mgr.*BENJ. ENGLISH, *Mine Foreman.*JOS. H. BOWEN, *Supt.*ED. LUCAS, *Asst. Mine Foreman.*SAM WHITE, *Asst. Mine Foreman.***POCAHONTAS CONSOLIDATED COLLIERIES CO. INC.**

P. O. FREEMAN, W. VA.

No. 1013. *Caswell Creek Hemlock Mine*.—This mine is located two and a half miles from Simmons on Simmons Creek. It is a drift opening operating the No. 3 Pocahontas seam, and which is 8 feet in thickness. The ventilation is produced by a twelve foot fan which also furnishes ventilation for the Elkhorn mine. The current of air is divided into three separate splits which produces ample ventilation. The number of men employed in the mine, on last inspection, were 49. This mine is very wet at all seasons of the year. Haulage is performed by steam locomotives and mules. The roof is very poor and requires very careful attention. Timber men are employed to do all timbering for miners. Rules are posted. Stretchers, blankets, safety lamps, mine fore-

man's record books, and all necessary supplies are kept on hand, and the law is fully complied with in all respects.

JAMES EDWARD JONES, *Gen. Mgr.*

J. W. COLE, *Mine Foreman.*

J. K. WHITEHEAD, *Supt.*

FRANK SMITH, *Asst. Mine Foreman.*

ROBT. WALLACE, *Inspector of Mines.*

POCAHONTAS CONSOLIDATED COLLIERIES CO. INC.

P. O. FREEMAN, W. VA.

No. 1013. *Caswell Creek Elkhorn Mine.*—This mine is located on Simmons Creek opposite the Hemlock mine in the same seam. Its ventilation is supplied by the same fan which supplies ventilation for the Hemlock mine. Number of men employed in the mine are 115, producing a daily output of about 1000 tons per day. On last inspection of this mine, the ventilation was not quite up to the standard on account of the doors and stoppings being in poor condition. Attention was called to the Supt. of the mine on conditions which were found. Timbering was also neglected in different parts of the mine, which would soon be remedied. Haulage is done by steam locomotives and mules. Drainage is good. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand to comply with the mining law.

JAMES EDWARD JONES, *Gen. Mgr.*

J. W. COLE, *Mine Foreman.*

J. K. WHITEHEAD, *Supt.*

J. SAXTON, *Asst. Mine Foreman.*

ROBT. WALLACE, *Inspector of Mines.*

POCAHONTAS CONSOLIDATED COLLIERIES CO. INC.

P. O. McCOMAS, W. VA.

No. 1014. *Sagamore Mine No. 1.*—This is a drift mine located on the Crane Creek branch in the No. 3 Pocahontas seam, averaging 5 to 7 feet in thickness. The coal is mined with pick and machine. Ventilation is produced by a six foot fan which gives ample ventilation, and the current of air is well conducted to the face of the workings. This mine has always been found up to the standard in all respects. 51 men are employed in this mine, producing about 400 tons per day. The haulage in this mine is done by electric motors. Roof and drainage in good condition. Mine is well supplied with timber. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand to comply with the mining law.

JAMES ELWOOD JONES, *Gen. Mgr.*

J. P. CLARK, *Mine Foreman.*

J. C. BALDWIN, *Supt.*

T. D. MATTHEWS, *Asst. Mine Fore.*

ROBT. WALLACE, *Inspector of Mines.*

POCAHONTAS CONSOLIDATED COLLIERIES CO. INC.

P. O. McCOMAS, W. VA.

No. 1015. *Sagamore Mine No. 2.*—This is a drift mine located on the Crane Creek branch directly opposite the Sagamore mine, No. 1, and being in the same lease. Height 4 feet, 6 inches. All coal is mined with the Jeffrey Coal Cutting machines. Ventilation is produced by a twelve foot Jeffrey fan. The current of air is divided into four different splits. All stoppings are built of concrete, thus producing ample ventilation throughout the mine. All machine

cuttings are thoroughly watered down before loading out. Small traces of gas have been found which have been taken care of at once. Drainage is in good condition. Haulage is done by electric motors. Timbering good and sufficient timber on hand. There are 82 men employed, producing 800 tons per day. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand to comply with the mining law.

JAMES ELWOOD JONES, *Gen. Mgr.*

J. P. CLARK, *Mine Foreman.*

J. C. BALDWIN, *Supt.*

ED. EVANS, *Asst. Mine Foreman.*

ROBT. WALLACE, *Inspector of Mines.*

LOUISVILLE COAL & COKE CO.

P. O. GOODWILL, W. VA.

No. 1016. *Goodwill Mine*.—This mine is located on Flipping Creek one mile from Goodwill. It is a drift opening in the No. 3 Pocahontas seam. This mine has a very bad roof and has to be carefully timbered. Ventilation is produced by a twelve foot fan which gives ample ventilation. Stoppings are all built of concrete on the main entries. Refuge holes are kept free from obstructions and are white-washed according to law. Clay is furnished the miners for tamping. Haulage is performed by electric locomotives and mules. There are 54 men employed in this mine, producing a daily output of 400 tons. Coal averages 4 feet, 6 inches thick. A good supply of timber is always kept on hand. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand according to law.

JAIKUS COLLINS, *Gen. Mgr.*

GEORGE SCOTT, *Mine Foreman.*

BERT JOHNSON, *Asst. Mine Foreman.*

LOUISVILLE COAL & COKE CO.

P. O. GOODWILL, W. VA.

No. 1016. *Louisville No. 2 Mine*.—This mine is located on Flipping Creek near Goodwill. It is a drift mine operating the No. 3 Pocahontas seam. On last inspection, there were 36 men employed inside the mine, and which produced 300 tons per day. There has been installed recently, two Morgan Gardner Short-Walled machines which are giving good results. Ventilation is produced by a ten foot fan and is divided into two separate currents. Haulage is done by electric locomotives and mules. Clay is used for tamping and put in suitable places for the miners. In part of the mine the roof is very frail which requires careful timbering. Drainage is good. Posts and caps are kept on hand at suitable lengths. Rules are posted. Stretchers, blankets, safety lamps and record books are kept on hand according to the mining law.

JAIKUS COLLINS, *Gen. Mgr.*

GEORGE SCOTT, *Mine Foreman.*

J. W. KELLEY, *Asst. Mine Foreman.*

LOUISVILLE COAL & COKE CO.

P. O. GOODWILL, W. VA.

No. 1016. *Klondike No. 3 Mine*.—This is a drift opening in the No. 3 Pocahontas seam. The tract is small comprising thirty-seven acres adjacent to the No. 2 Louisville lease. 36 men were employed inside the mine on my last

inspection, producing about 250 tons per day. Ventilation is produced by a five foot fan which is propelled around the mine in one current. This mine is on the retreat all confined to pillar workings. Ventilation good at all points in the mine. The mine is very wet, but the water well taken care of. Roof is good in general. Also, timbering good. The state mining law is fully complied with in every respect.

JARIUS COLLINS, *Gen. Mgr.*

GEORGE SCOTT, *Mine Foreman.*

GEO. MCNEW, *Asst. Mine Foreman.*

LOUISVILLE COAL & COKE CO.

P. O. GOODWILL, W. VA.

No. 1016. *Louisville No. 4 Mine.*—This mine is located about a half mile from Goodwill in a small acreage of land belonging to the Louisville lease, which will soon be exhausted as it is all confined to pillar workings. 11 miners are employed in the mine producing 100 tons per day. The roof is very dangerous in this mine and requires very careful timbering. At times the mine is very wet. Ventilation is produced by a four foot fan, which gives ample ventilation. Haulage is done by mules. Props and caps are always kept on hand at suitable lengths, and all other necessary supplies to comply with the State Law.

JARIUS COLLINS, *Gen. Mgr.*

GEORGE SCOTT, *Mine Foreman.*

MARSH HALL, *Asst. Mine Foreman.*

GODFREY COAL COMPANY.

CRYSTAL, W. VA.

No. 1017. *Ceplats Mine.*—This mine is located on Crane Creek two miles from Montcalm. It is a drift mine in the No. 3 Pocahontas seam, which is 4 feet 6 inches thick. Ventilation is produced by a small furnace and was sufficient for the number of employees in the mine, which employs 20 men inside when last inspected. The miners were well supplied with necessary timber. Haulage is performed by mules. Drainage and roof in good condition. Rules are posted. Stretchers, blankets, safety lamps and all necessary supplies are kept on hand according to the State Law.

E. A. WILLIAMS, *Gen. Mgr.*

E. V. NEAL, *Mine Foreman.*

CRYSTAL COAL & COKE CO.

CRYSTAL, W. VA.

No. 1018. *Crystal Nos. 1 & 2 Mines.*—These mines are located on Crane Creek about three miles from Montcalm, operating the No. 3 Pocahontas seam with an average of 4 feet 6 inches thick. They are connected on the inside and are ventilated by the same fan which is ten feet in diameter. The air current is divided into three splits and is well distributed. Drainage is good in No. 2 but deficient in No. 1 on account of the breaks in the mountain caused by drawing pillars. There are 85 men employed in these mines, producing a daily output of 800 tons. Roof, timbering and drainage good except in a few local places. Haulage is done by electric locomotives and mules. Posts and caps are kept on hand. Rules are posted. Stretchers, blankets,

safety lamps, record books and all necessary supplies are kept on hand according to the mining law.

W. H. THOMAS, *Gen. Mgr.*

E. R. FOLEY, *Mine Foreman.*

WM. J. PRITCHARD, *Gen. Supt.*

C. C. THOMPSON, *Asst. Mine Fore.*

J. LOWE, *Asst. Mine Foreman.*

CRYSTAL COAL & COKE CO.

CRYSTAL, W. VA.

No. 1019. *Crystal Nos. 3 & 4 Mines.*—These drifts are located on Crane Creek about three miles from Montcalm, operating the No. 3 Pocahontas seam with an average of $4\frac{1}{2}$ feet thick. These drifts are ventilated by a furnace at the present time but a fan will soon be installed. On my last examination there were 39 men employed in the mines, producing about 250 tons per day. Improvements done during the year are one 30 H. P. Westinghouse motor; one 20 H. P. Westinghouse motor; two 15 H. P. Westinghouse motors; one 5 H. P. Westinghouse motor; one Pittsburg Coal Washer; Picking Table of the Dodge Manufacturing Co., which is capable of washing 800 tons per day and which is giving good success. On inspection of the mine, the law was found to be complied with in all respects. Roof and drainage good. All timbering in good condition and a sufficient amount on hand.

W. H. THOMAS, *Gen. Mgr.*

G. L. SMITH, *Mine Foreman.*

WM. J. PRITCHARD, *Gen. Supt.*

AMERICAN COAL CO. OF ALLEGHENY COUNTY.

P. O. McCOMAS, W. VA.

No. 1020. *Crane Creek No. 1.*—This is a drift opening near Mora on Crane Creek and operating the No. 3 Pocahontas seam which is 4 feet 6 inches at this point. Ventilation is produced by a twelve foot Jeffery fan which gives good results. All stoppings are built of concrete. These mines are kept in a moist condition in the raised workings and in the dip workings they are troubled with considerable water caused by robbing of pillars. There are 61 men employed in this mine, producing about 500 tons per day. Haulage is done by electric motors and mules. Mines in a first class condition in all respects and well taken care of. Rules are posted. Stretchers, blankets, safety lamps record books and all necessary supplies are kept on hand as the law requires.

J. H. PARRETT, *Gen. Mgr.*

JAS. HUGHES, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

TOM LUKE, *Asst. Mine Foreman.*

No. 1020. *Crane Creek No. 2.*—This is a drift opening near Mora on Crane Creek and operating No. 3 Pocahontas seam which is 4 feet, 6 inches with a draw slate from 6 to 12 inches, and which needs very careful attention. The ventilation is produced by a 25 foot fan which gives ample ventilation. All stoppings on the main and cross entries are built of concrete. The dust in the raised workings is kept down by sprinkling and in the dip workings there is considerable trouble with water. Haulage is done by electric motors and mules. On the last examination this mine was in a first class condition in all respects. Clay is used for tamping. Rules are posted. Stretchers, blankets,

safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

J. H. PARRETT, *Gen. Mgr.*

JAS. HUGHES, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

TOM LUKE, *Asst. Mine Foreman.*

AMERICAN COAL CO. OF ALLEGHENY COUNTY.

McCOMAS, W. VA.

No. 1021. *Pinnacle North Mine.*—This is a drift mine located near the head of Crane Creek. It is operating the No. 3 Pocahontas seam, being 4 feet, 6 inches thick with about 8 inches draw slate. Ventilation is produced by a twelve foot fan which gives ample ventilation. All stoppings along the main and cross entries are built of concrete to conduct the air to the face of the workings. On the last inspection 50 men were employed inside the mine, producing about 500 tons per day. There has been a new tippie built at this place, equipped with one 100 H. P. motor and one 15 H. P. of the Westinghouse type picking table. Roof, timbering and drainage in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

J. H. PARROTT, *Gen. Mgr.*

J. L. DEWEES, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

JOHN WILSON, *Asst. Mine Foreman.*

AMERICAN COAL CO. OF ALLEGHENY COUNTY.

McCOMAS, W. VA.

No. 1021. *Pinnacle South Mine.*—This is a drift mine located across the ravine from the Pinnacle North Mine, operating the No. 3 Pocahontas seam. The coal is delivered to the same tippie. Height of coal 4 feet, 8 inches, with 6 inches of draw slate. Ventilation is produced by a twelve foot fan which gives good ventilation. All stoppings on the main and cross entries are built of concrete. This mine is naturally moist. There are 73 men employed in this mine, with an output of about 500 tons per day. Roof and drainage good. Posts, caps and sufficient amount of timber on hand. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand.

J. H. PARROTT, *Gen. Mgr.*

J. L. DEWEES, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

JAS. SISSON, *Asst. Mine Foreman.*

AMERICAN COAL CO. OF ALLEGHENY COUNTY.

P. O. WIDEMOUTH, W. VA.

No. 1022. *Piedmont No. 1 Mine.*—This is a drift mine in the No. 3 Pocahontas seam, located on a branch of the Widemouth Creek. Ventilation is produced by an eight foot. The current is very well distributed. On last inspection, there were only 14 men employed on account of the power house being burned down. Roof and drainage good. Sufficient amount of timber on hand at all times. Haulage is done by steam locomotives and mules. This mine is a machine mine but at the present time is working a few pick men. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand to meet the requirements of the law.

J. H. PARROTT, *Gen. Mgr.*

C. R. IRVIN, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

D. BUCHANAN, *Asst. Mine Foreman.*

AMERICAN COAL CO. OF ALLEGHENY COUNTY.

P. O. WIDEMOUTH, W. VA.

No. 1022. *Piedmont No. 2 Mine.*—This is a drift mine in the same lease as Piedmont No. 1, operating No. 3 Pocahontas seam, and is about 4 feet, 6 inches thick with about 6 to 12 inches of slate about a foot from the top of the seam, and has a sand rock roof. There are usually about 35 men employed at this mine, but on last inspection, there were only 10 men inside the mine. All coal is cut with the Ingersoll Punching Machine. The output is delivered to the same tippie as No. 1 mine. Haulage is done by mules. Ventilation is produced by a seven foot fan which gives ample ventilation. Roof and drainage good. Sufficient amount of timber on hand at all times. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

J. H. PARROTT, *Gen. Mgr.*

C. R. IRVIN, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

AMERICAN COAL CO. OF ALLEGHENY COUNTY.

P. O. WIDEMOUTH, W. VA.

No. 1022. *Piedmont No. 3 Mine.*—This is a drift mine in the same lease as the Piedmont Nos. 1 and 2 mines, operating the No. 3 Pocahontas seam. The coal is delivered to the same tippie as No. 1 by steam locomotive. Haulage performed inside of mine by mules. Ventilation produced by a seven foot fan which also ventilates No. 2. The air is distributed to the face of the workings by concrete stoppings on the main and butt entries. All coal is cut with the Ingersoll Punching Machine, but on account of the power house being burned down a few pick miners are being worked. On last inspection of this mine, there were 19 men employed. Roof, drainage and timbering good. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

J. H. PARROTT, *Gen. Mgr.*

C. R. IRVIN, *Mine Foreman.*

J. TRACY WALKER, *Supt.*

THOMAS COAL COMPANY.

P. O. McCOMAS, W. VA.

No. 1023. *Thomas No. 1 Mine.*—This is a drift mine located at the head of Crane Creek, operating the No. 3 Pocahontas seam, being 5 feet thick at this point. Ventilation is produced by an eighteen foot fan and is divided into two separate currents. On last inspection, there were 110 men employed inside the mine, producing a daily output of about 800 tons. The condition of this mine is naturally moist in the raised workings and wet in the dip workings. Haulage is performed by electric motors and mules. Roof and drainage in good condition. Props, caps and sufficient amount of timber kept on hand. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

W. H. THOMAS, *Gen. Mgr.*

EVAN COENBURN, *Mine Foreman.*

WM. J. PRITCHARD, *Gen. Supt.*

NOAH STURGELL, *Asst. Mine Foreman.*

JAS. THOMAS, *Supt.*

J. H. GARDNER, *Asst. Mine Foreman.*

THOMAS COAL COMPANY.

P. O. GIATTO, W. VA.

No. 1024. *Thomas No. 2 Mine.*—This is a drift mine in the same lease as No. 1, opened on the Widemouth Creek two miles from Giatto, operating the No. 3 Pocahontas seam. At this point the coal is 5 feet high, and at present time there are 40 men employed inside the mine, producing about 300 tons per day. This mine has recently been connected with No. 1, and the furnace dispensed with, this mine getting its supply of air from No. 1. This mine has always been in a wet condition, but the drainage is good. There is about 4 to 6 inches of draw slate over the coal. Roof is good. Haulage is performed by mules at present time. Props, caps, and sufficient amount of timber is kept on hand. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hands as the law requires.

W. H. THOMAS, *Gen. Mgr.*PAT BRENNAN, *Mine Foreman.*WM. J. FRITCHARD, *Gen. Supt.*JAS. THOMAS, *Supt.**PAWAMA COAL & COKE COMPANY.*

P. O. MATOAKA, W. VA.

No. 1025. *Pawama Mine No. 1.*—This mine is located on the Widemouth Creek at Matoaka, operating No. 3 Pocahontas seam, being about 4 feet 6 inches at this point. On last inspection, only 27 men were employed inside, producing a daily output of 250 tons. Ventilation is produced by a seven foot Sirocco fan. This is a very wet mine and is confined practically to pillar workings. Haulage is done by motors and mules. Roof is very dangerous on account of the breaks in the mountain. A sufficient amount of timber is always on hand. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

J. H. PARROTT, *Gen. Mgr.*CHAS. PARCELL, *Mine Foreman.*J. C. STRASS, *Supt.**PAWAMA COAL & COKE COMPANY.*

P. O. MATOAKA, W. VA.

No. 1025. *Pawama Mine No. 2.*—This mine is located on the Widemouth Creek at Matoaka, operating the No. 3 Pocahontas seam, being 4 feet, 6 inches high. It is in the same lease as No. 1. Output delivered to the same tippie. Ventilation is produced by a seven foot Sirocco fan, which also ventilates No. 1 mine. Some parts of the mine are very wet, other parts are dry but are well watered down. There is a draw slate from 8 to 12 inches, which is taken down by company men. Roof and drainage in good condition. Caps, props and a sufficient amount of timber is kept on hand at all times. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires. On last inspection, there were 70 men employed, producing an output of 500 tons per

day. All coal is cut by Morgan Gardner Coal Cutting Machines. Haulage is done by electric motors and mules.

J. H. PARROTT, *Gen. Mgr.*

CHAS. PARCELL, *Mine Foreman.*

J. C. STRASS, *Supt.*

WEYANOKE COAL & COKE COMPANY.

P. O. LOWE, W. VA.

No. 1026. *Weyanoke Mine*.—This is a drift mine, located one mile from Matoaka, operating No. 3 Pocahontas seam, being 4 feet, 6 inches high. This mine employs 31 men inside, coal being cut by Morgan Gardner Machines, and also pick mining. The daily output is about 300 tons per day. With a full supply of men this mine is capable of producing 800 tons per day. This mine has always been found to be in a moist condition, by the use of salt and water. Ventilation is produced by a twelve foot fan which gives ample ventilation. Air is conducted to the face of the workings by concrete stoppings and check-doors. The mine officials take great pleasure in keeping the mine up to date in every respect. Caps, props and sufficient amount of timber is always on hand. Roof, drainage and timbering in good condition. This mine is equipped with electric light lines for signals to tell when the trips are loaded on any parting in the mine. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

R. D. PATTERSON, *Gen. Mgr.*

JOHN WOODYARD, *Mine Foreman.*

H. L. VANCURMP, *Supt.*

WM. WRIGHT, *Asst. Mine Foreman.*

WEYANOKE COAL & COKE COMPANY.

P. O. LOWE, W. VA.

No. 1026. *Elihu Mine*.—This is a drift mine, located one mile from Matoaka, operating No. 3 Pocahontas seam, being 4 feet 5 inches high. It is of the same lease as Weyanoke Mine, employing about the same number of men. Coal is cut by Morgan Gardner Machines, and also pick mining. Daily output about 350 tons. Ventilation is produced by a five foot fan and has one current of air. This mine is kept in a first class condition. Salt and water are used to keep the mine damp. Roof, drainage, and timbering in good condition. Caps, props, and a sufficient amount of timber are always on hand. Clay is used for tamping. Haulage is done by electric motors and mules. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

R. D. PATTERSON, *Gen. Mgr.*

JOHN WOODYARD, *Mine Foreman.*

H. L. VANCURMP, *Supt.*

ALBERT VINES, *Asst. Mine Foreman.*

THE SMOKELESS COAL & COKE COMPANY.

P. O. HIAWATHA, W. VA.

No. 1027. *Smokeless Mine*.—This is a drift mine in the No. 3 Pocahontas seam, about one mile from Hiawatha on the Widemouth Creek. The seam is 4 feet thick at this point. It has a band of slate varying in thickness from 4 to 10 inches thick in the middle of the seam, which makes mining rather difficult. The coal is cut by pick and machine mining. On last inspection there were 42 men employed inside the mine, producing a daily output of about 350

tons. Ventilation is produced by a twelve foot fan and is conducted to the face of the workings by concrete stoppings and check doors. Haulage is done by motors and mules. This mine is very wet. Roof and drainage good except a few local places. Timbering in good condition. Clay is used for tamping. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

D. H. BARGER, *Gen. Mgr.*

P. L. VEST, *Mine Foreman.*

O. N. MOOMAW, *Supt.*

HIAWATHA COAL & COKE COMPANY.

HIAWATHA, W. VA.

No. 1028. *Hiawatha Mine*.—This mine is located on the Widemouth Creek at Hiawatha. It is a drift mine operating the No. 3 Pocahontas seam, and is 4 feet 6 inches high. It has a very frail roof. Great precaution has to be taken to protect the lives of the miners employed inside. The mine officials see that all places are properly timbered and the dangerous slate taken down. Ventilation is produced by a fifteen foot Force fan. Haulage is performed by steam locomotives and mules at the present time. The mine is being wired so as to dispense with the steam locomotives, so that electric haulage may be installed, which they now have ready. One four ton Jeffrey motor; one 10 ton motor with a 13 ton equipment. They have also installed one 250 K. W. Generator and one Driven Connecting Engine. The mine is kept in a moist condition by the use of salt and water. Drainage and timbering in good condition. Clay is used for tamping. On last inspection, there were 89 men employed inside of mine, producing a daily output of about 600 tons per day. Coal is mined by pick and machine. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

D. H. BARGER, *Gen. Mgr.*

H. G. HAPPERSETT, *Mine Foreman.*

O. N. MOOMAW, *Supt.*

CHAS. HEDRICH, *Asst. Mine Foreman.*

WM. NUNN, *Asst. Mine Foreman.*

SPRING COAL MINING COMPANY.

SPRINGTON, W. VA.

No. 1029. *Spring Mine*.—Is located on the Widemouth Creek at Springton, operating No. 3 Pocahontas seam, being 4 feet, 6 inches thick, and which has a very frail roof. It is well taken care of by careful timbering. Ventilation is produced by a fifteen foot fan and is divided into three separate currents of air, which is well distributed throughout the workings. On last inspection, there were 79 men employed inside the mine, producing a daily output of 600 tons. All stoppings are built of concrete. Haulage done by steam locomotives and mules. All coal is mined by pick mining. Drainage is good but the mine is very wet. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

H. E. HARMAN, *Gen. Mgr.*

A. E. THOMAS, *Mine Foreman.*

M. J. SAUNDERS, *Supt.*

J. E. SNEED, *Asst. Mine Foreman.*

G. L. WALKER, *Asst. Mine Foreman.*

WENONAH COAL & COKE COMPANY.

P. O. DOTT, W. VA.

No. 1030. *Wenonah Nos. 1 & 2 Mines.*—These are drift openings in the same lease located at the head of the Widemouth Creek, operating the No. 3 Pocahontas seam, being 4 feet, 6 inches high at this point. Ventilation is produced by a sixteen foot fan which gives ample ventilation. The coal is mined by electric machines and pick mining. On last inspection, 87 men were employed inside the mine, producing 600 tons per day. This mine is naturally wet. Haulage is done by electric locomotives and mules. Drainage, roof, and timbering in good condition. All stoppings built of concrete. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

H. E. HARMON, *Gen. Mgr.*DANIEL FRAZIER, *Gen. Mine Foreman.*J. L. PERDUE, *Asst. Mine Foreman.*ROBERT MAHONEY, *Asst. Mine Foreman**WENONAH COAL & COKE COMPANY.*

P. O. DOTT, W. VA.

No. 1030. *Wenonah No. 3 Mine.—Drifts Nos. 1, 2 & 3.*—Opened on the same lease as Wenonah Nos. 1 & 2, operating No. 3 Pocahontas seam, being 4 feet, 6 inches high. On last inspection there were 15 men employed. Haulage is done by steam locomotive and mules. Later on these three drifts will be so connected as to make one mine. Preparations were being made to install furnaces at each opening which will later be replaced by fan ventilation. A new tippie has been built, equipped with one Jeffrey 30 H. P. motor, also Scraper Line and Picking Table of the Jeffrey Type. Roof, drainage and timbering good. Rules are posted. All necessary supplies are kept on hand as the law requires.

H. E. HARMON, *Gen. Mgr.*DANIEL FRAZIER, *Gen. Mine Foreman.**MCDOWELL COUNTY.**ALGOMA COAL & COKE COMPANY.*

P. O. ALGOMA, W. VA.

No. 1031. *Piney Mine.*—This mine is located on Buzzard Creek, one mile north of Northfork. It is a drift opening operating the No. 3 Pocahontas seam, and is about 6 feet high. Ventilation is produced by a seven foot Lirocco fan, which gives good results. This mine generates small traces of gas in the advanced workings. The mine is partly dry but is kept well watered. Other parts of the mine are very wet. All stoppings on the main and cross entries are built of concrete throughout the mine. This company whenever necessary to use permissible powder, cheerfully furnishes the miner the explosive free of cost. One hundred and thirty men are employed in this mine, producing a daily tonnage of 1500 tons. With a full supply of men is capable of producing 2000 tons per day. Cut-boss is employed in this mine to take care of the solid workings. Each cut is measured before the shot is fired and a record kept of the same, and return to the main office to the Gen. Mgr. In Nos. 1, 2, 3, 4, and 5 butt entries where pillars are being extracted the roof is very dangerous. It is well cared for by timbermen who are employed to do

the timbering. Haulage is done by electric locomotives and mules. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

W. J. BEURY, *Gen. Mgr.*

J. F. LOGAN, *Mine Foreman.*

GUY TAYLOR, *Asst. Mine Foreman.*

P. L. HALL, *Asst. Mine Foreman.*

M. D. HALL, *Cut Boss.*

M. A. BROWN, *Fire Boss.*

ALGOMA COAL & COKE COMPANY.

P. O. ALGOMA, W. VA.

No. 1031. *North Fork Mine.*—*Coaling Station.*—This is a drift mine located on Burk Creek one-fourth mile west of Northfork, on the main line of the N. & W. R. R., operating the No. 3 Pocahontas seam, and is 6 feet high. This mine is ventilated by natural ventilation. 22 men are employed inside the mine, producing a daily output of about 160 tons. Haulage is done by mules. This mine is on the retreat, and is making preparations to install a fan when they commence to rob the coal on the main entry, in order to supply the men with air. This mine is very wet in all places. Drainage is as good as can be expected. Roof is very poor. Timbering good. Clay is used for tamping. Rules are posted. Stretches, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

W. J. BEURY, *Gen. Mgr.*

J. F. LOGAN, *Mine Foreman.*

J. A. FOWLER, *Asst. Mine Foreman.*

ELK RIDGE COAL & COKE COMPANY.

P. O. NORTHFORK, W. VA.

No. 1032. *Elk Ridge Nos. 1 & 2.*—Are located three-fourths mile from Northfork. They are drift openings operating the No. 3 Pocahontas seam, and is 7 feet thick, with a draw slate two feet thick which makes it very dangerous on account of the mines being practically confined to pillar workings, there being only a small acreage of solid coal left in the lease, this also has a very poor roof, and which requires careful timbering. All timbering is done by Company men. Ventilation is produced by two sixteen foot fans which furnishes sufficient ventilation. All stoppings on the main entries where steam locomotives travel, are built of concrete. There are 175 men employed inside the mine, producing a daily tonnage of 1000 tons. Haulage is performed by steam locomotives and mules. The roof is poor. Drainage in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books, and all necessary supplies are kept on hand as the law requires.

L. E. TIERNEY, *Gen. Mgr.*

HENRY CRICKMAN, *Mine Foreman.*

JACK DALTON, *Supt.*

IRVIN DAVIS, *Asst. Mine Foreman.*

MOCK SMITH, *Slate Foreman.*

MAT CRICKMAN, *Fire Boss.*

GILLIAM COAL & COKE COMPANY.

P. O. GILLIAM, W. VA.

No. 1033. *Gilliam Mine.*—This mine is located on the Northfork branch on the N. & W. R. R., two miles from Northfork. It is a drift mine operating the

No. 3 Pocahontas seam. Ventilation is produced by an eighteen foot fan, the current being divided into three separate splits and is well distributed throughout the mine. The coal at this point is 5 feet, 3 inches. Drainage and roof in good condition. All stoppings built of stone and cement which gives good results. There are 134 men employed inside the mine, producing a daily tonnage of 1000 tons. Haulage is performed by electric motors and mules. The mine is kept in a moist condition with salt and water. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

MORRIS WATTS, *Gen. Mgr.*

C. HUGHES, *Mine Foreman.*

J. C. CAMPBELL, *Supt.*

A. T. S. THOMPSON, *Asst. Mine Fore.*

SAM EDWARDS, *Asst. Mine Foreman.*

INDIAN RIDGE COAL & COKE COMPANY.

P. O. WORTH, W. VA.

No. 1034. *Indian Ridge Mine.*—Is located about four miles from Northfork on the Northfork branch of the N. & W. R. R. It is a drift mine in the No. 3 Pocahontas seam which will average 4 feet 10 inches. Ventilation is produced by a nine foot fan. The current is divided into three splits. Haulage is done by electric motors and mules. There are 89 men employed in this mine, with an output of 800 tons per day. With a full supply of men this mine is capable of producing 1500 tons per day. Roof, drainage, and timbering in good condition. In some parts of the mine where pillars are being extracted the dust is kept down by the use of salt and water. Other places in a moist condition on last inspection. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

A. D. RICE, *Gen. Mgr.*

JESSE HACKWORTH, *Mine Foreman.*

CLAUDE HARE, *Asst. Mine Foreman.*

ROBT. EVANS, *Asst. Mine Foreman.*

ROANOKE COAL & COKE COMPANY.

P. O. WORTH, W. VA.

No. 1035. *Roanoke Mine.*—Is located on the Northfork branch three and one-half miles from Northfork. It operates the No. 3 Pocahontas seam which is 5 feet, 2 inches thick at this point. There are 95 men employed inside at the present time, producing 900 tons per day. Ventilation is produced by a ten foot fan, the current being divided into two separate splits. Haulage is done by electric motors and mules. The coal is mined by pick and machine mining. Roof and timbering good in general. All stoppings on the main and cross entries are built of concrete. Some parts of the mine are very wet, while other parts are kept moist by salt and water and sprinkling. Props, caps and a sufficient amount of timber on hand. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

HENRY BROOK, *Supt.*

WM. MARSHALL, *Mine Foreman.*

LUTHER MARSHALL, *Asst. Mine Fore.*

LUTHER THOMAS, *Asst. Mine Fore.*

ARLINGTON COAL & COKE COMPANY.

P. O. McDOWELL, W. VA.

No. 1036. *Arlington Mine*.—Is located on the Northfork branch four miles from Northfork. It is a drift mine in the No. 3 Pocahontas seam, employing 105 men inside. The output is 1000 tons per day. With a full supply of men this mine would produce 1500 tons per day. Ventilation is produced by an eighteen foot fan which is divided into three separate currents of air, being well distributed throughout the workings. This mine has always been found in a satisfactory condition, strict discipline being used at all times. Roof, timbering and drainage good. Haulage is performed by electric motors and mules. This is a pick mine. All stoppings on the main and cross entries built of concrete. Salt is distributed through all the abandoned workings and all working places which takes care of the dust. Props, caps and a sufficient amount of timber kept on hand at all times. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand to meet the requirements of the law.

MORRIS WATTS, *Gen. Mgr.*ALFRED HALL, *Mine Foreman.*J. C. CAMPBELL, *Supt.*R. M. COOK, *Asst. Mine Foreman.*W. R. ADAMS, *Pillar Boss.*C. A. MYERS, *Pillar Boss.***GREENBRIER COAL & COKE COMPANY.**

P. O. McDOWELL, W. VA.

No. 1037. *Greenbrier Mine*.—Is located on the Northfork branch five miles from Northfork. It is operating the No. 3 Pocahontas seam, with an average thickness of 6 feet. 95 men were employed, producing a daily tonnage of about 800 tons. Haulage is done by electric motors and mules. Ventilation is produced by a thirteen foot fan. The current is divided into three separate splits. Some parts of this mine are very wet and other parts of the mine are kept moist by using salt and water. There are small traces of gas given off in this mine in the advance workings. Recommendations have been given to use permissible powder only in all places giving off explosive gases. This mine has always been found in good condition. Roof, timbering and drainage in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

JAIRUS COLLINS, *Gen. Mgr.*ARTHUR OTEY, *Mine Foreman.*W. F. WHITE, *Fire Boss.***MCDOWELL COAL & COKE COMPANY.**

MCDOWELL, W. VA.

No. 1038. *McDowell Mine*.—Is located at McDowell four miles from Northfork. It is a drift mine operating the No. 3 Pocahontas seam and is 5 feet, 6 inches thick. The roof is good above the draw slate. 118 men are employed inside, producing about 1500 tons per day. Ventilation is produced by a thirteen foot fan. The air is distributed throughout the mine by four splits. There is considerable pillar robbing going on in this mine which keeps the mine very wet on account of the breaks in the mountain. In the solid workings there are steam, salt and water car equipped with a rotary pump to keep the

dust down. All coal is pick mined. Haulage is done by electric motors and mules. Stoppings, drainage, timbering in good condition. Clay is used for tamping. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires. Rules are posted.

EDWARD COOPER, *Gen. Mgr.*

ALLEN HAMBRICK, *Mine Foreman.*

H. W. RAWSON, *Supt.*

ARTHUR HAMILTON, *Asst. Mine Fore.*

PIERCE COWEN, *Asst. Mine Foreman.*

ASHLAND COAL & COKE COMPANY.

P. O. ASHLAND, W. VA.

No. 1039. *Ashland Mine.*—This is a drift mine located six miles from Northfork Junction, operating in the No. 3 Pocahontas seam. It is 4 feet 9 inches high. The mine employs at present 70 men inside with an output of 800 tons per day. With a full supply of men this mine would produce 1500 tons per day. Ventilation is produced by a sixteen foot fan which is conducted throughout the mine by three separate currents of air. All stoppings are permanently built. Haulage is done by electric motors and mules. The officials of this mine takes great pleasure in keeping this mine in a first class condition, by using salt in the old workings and also in the advanced workings to lay the dust. On all pillar robbing, it is kept wet by the breaks in the mountain. There has been installed, recently two coal-cutting machines of the Jeffrey Type. Roof, drainage, and timbering in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

D. PHILLIPS, *Gen. Mgr.*

H. HONAKER, *Mine Foreman.*

T. J. O'NEIL, *Supt.*

E. C. LEWIS, *Asst. Mine Foreman.*

W. S. COLVARD, *Asst. Mine Foreman.*

ASHLAND COAL & COKE COMPANY.

P. O. ASHLAND, W. VA.

No. 1039. *Monitor Mine.*—This is a drift opening in the No. 3 Pocahontas seam, and is located on the Northfork branch one mile from Ashland. It is in the same lease as the Ashland mine and is 4 feet, 9 inches high at this point. This is a pick and machine mine, employing 68 men inside, producing about 600 tons per day. With a full supply of men this mine would produce 1000 tons per day. Ventilation produced by a twenty foot fan, which gives ample ventilation in all parts of the mine. There are six coal punching machines which are giving good results. The roof is very good in this mine. Drainage and timbering good. Stoppings in good condition. All cross-cuts are regularly driven. Haulage is done by electric motors and mules. Clay is used for tamping. Mines are kept in a moist condition by the use of salt and water. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

D. PHILLIPS, *Gen. Mgr.*

JOHN LOVERN, *Mine Foreman.*

T. J. O'NEIL, *Supt.*

JAS. TAYLOR, *Asst. Mine Foreman.*

O. J. HAMLETT, *Asst. Mine Foreman.*

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

P. O. ASHLAND, W. VA.

No. 1040. *Cherokee Mine*.—This is a drift mine in the No. 3 Pocahontas seam, located one and a half mile from Ashland on the Northfork branch. The coal averages 5 feet, 2 inches in thickness. There are 70 men employed inside the mine, producing a daily tonnage of about 500 tons per day. At the present time the coal is being hauled by steam locomotives and mules which will soon be replaced by electric motors. Ventilation is produced by a ten foot fan and is divided into three separate splits. On last inspection, this mine was very wet in all parts. Roof, timbering and drainage good. Stoppings in good condition. Sufficient amount of timber on hand. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

JAS. ELWOOD JONES, *Gen. Mgr.*J. H. HOLLIWAY, *Mine Foreman*.WM. HEATHERMAN, *Supt.*JOHN SHEETS, *Asst. Mine Foreman*.ROBERT WALLACE, *Inspector of Mines*. CHAS. HUFFMAN, *Fire Boss*.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

P. O. SWITCHBACK, W. VA.

No. 1041. *Lick Branch Mine*.—This mine is located at Switchback on the main line of the N. & W. R. R. There are two drift openings called the old and the new mine. The seam being mined is the No. 3 Pocahontas, which is 8 feet thick. The coal is undercut entirely by electric chain machine. The seam is cut in the center to eliminate any danger of blownout shots. After the cutting is finished all dust is loaded out before any shots are fired. All holes are tamped with clay. Ventilation is produced by a twelve foot fan which gives ample ventilation. The dust in this mine is kept down by a water line, also water sprays and steam conducted into the mine. Old abandoned places are kept watered down. The coal has a draw slate from 6 to 12 inches over the top, which is taken down by the slate men. All places are timbered by timbermen. Drainage and stoppings in good condition. Haulage is done entirely by electric motors. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires. 106 men are employed inside the mine, producing about 1000 tons per day.

JAS. ELLWOOD JONES, *Gen. Mgr.*J. T. TRAIL, *Mine Foreman*.R. S. WHITEHEAD, *Supt.*JOHN MEADWELL, *Asst. Mine Fore.*ROBT. WALLACE, *Inspector of Mines*. R. B. SMITH, *Asst. Mine Foreman*.

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

P. O. SWITCHBACK, W. VA.

No. 1042. *Delta Mine*.—This mine is located near Switchback on the main line of the N. & W. R. R. It is a drift opening in the No. 3 Pocahontas seam, and at this place the coal is 6 and 8 feet in thickness. There is a draw slate from 6 to 12 inches thick which makes it very dangerous. In the drawing of pillars, on account of so many kettle-bottoms in the roof, this is very dangerous. Ventilation is produced by a nine foot fan which gives ample ventilation and is well conducted to the face of the workings. All stoppings are built of concrete. There are 119 men employed inside the mine, producing about 800 tons per day. This is a pick and machine mine. All coal is cut in the center

of the seam to eliminate the dangers of blowout shots. After the cutting is finished, the cuttings are watered and loaded before shots are fired. Timbering and drainage in good condition. Mine is kept in a moist condition at all times. Slight tracks of gas are given off at intervals. Haulage is done by electric loco motives and mules. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand so as to comply with the law.

JAS. ELWOOD JONES, *Gen. Mgr.*

R. S. WHITEHEAD, *Supt.*

ROBT. WALLACE, *Inspector of Mines.*

ROBT. HUTCHINSON, *Mine Foreman.*

P. M. BOLEN, *Asst. Mine Foreman.*

L. F. BOWERS, *Asst. Mine Foreman.*

PETER TEAZDALE, *Fire Boss.*

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

P. O. SWITCHBACK, W. VA.

No. 1043, *Shamokin Mine*.—This mine is located on the main line of the N. & W. R. R., near Switchback. It is a drift opening operating the No. 3 Pocahontas seam, which is 9 feet thick at this point. 18 inches of this coal is left up to support the roof. There are 116 men employed inside the mine, producing about 1200 tons per day. Ventilation is produced by a twelve foot Jeffrey fan which gives ample ventilation. All stoppings on the main entries are built of concrete. This mine is kept in a moist condition by the use of steam and water cars. The coal is cut by the Jeffrey Electrical Machines and pick mining. On inspections to the mine, this mine has always been in good condition. Drainage and timbering in good condition. Haulage is done by electric motors and mules. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

JAS. ELWOOD JONES, *Gen. Mgr.*

R. S. WHITEHEAD, *Supt.*

ROBT. WALLACE, *Inspector of Mines.*

WM. Pearman, *Mine Foreman.*

ROBT. BOWLES, *Asst. Mine Foreman.*

FRANK WOODYARD, *Asst. Mine Fore.*

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

MAYBEURY, W. VA.

No. 1044, *Norfolk Mine No. 1 & 2*.—These mines are located about one and one fourth miles from Switchback on a branch from the main line of the N. & W. R. R. They are two drifts connected on the inside, operating the No. 3 Pocahontas seam. Ventilation is produced by a twelve foot Jeffrey fan which gives ample ventilation. The coal is 9 feet thick and is very dangerous on account of the slips and kettle-bottoms. The timbering is done entirely by company men throughout the mine. All slate is taken down by slate men. This mine is very wet. Drainage and timbering good. This is entirely pick mine. 119 men are employed inside, producing about 1200 tons per day. Haulage is performed by electric motors and mules. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as is required by the law.

Improvements made during the year are: A large Jeffrey Washer has been installed; two 75 H. P. Westinghouse motors, belt-driven; seven 50 H. P. Westinghouse motors; three 15 H. P. Westinghouse motors; one 20 H. P. Westinghouse motor; four Stuart Gigs, to wash the refuse out of the coal.

This washer is equipped to handle 3000 tons per day of 10 hours. It is equipped to handle 3 inch coal down to pea coal.

JAS. ELWOOD JONES, *Gen. Mgr.*

JOHN SHUFFLEBARGER, *Gen. M. F.*

R. S. WHITEHEAD, *Supt.*

TOM BURRELL, *Mine Foreman.*

ROBT. WALLACE, *Inspector of Mines.*

JAS. HENDRICK, *Asst. Mine Foreman.*

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

MAYBEURY, W. VA.

No. 1045. *Angle Mine.*—Is located across the ravine from the Norfolk Mine. It is a drift opening in the No. 3 Pocahontas seam, and 5 feet, 6 inches. Ventilation is produced by a twelve foot fan which gives ample ventilation. The volume of air is divided into four different currents. The roof and timbering are in good condition. 119 men are employed inside the mine, producing about 1000 tons per day. Haulage is done by electric motors and mules. Coal is mined by machines and pick. Break-throughs are regularly driven not more than 80 feet apart. Drainage and stoppings in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as required by law.

JAS. ELWOOD JONES, *Gen. Mgr.*

JOHN SHUFFLEBARGER, *Gen. M. F.*

R. S. WHITEHEAD, *Supt.*

T. W. WALTERS, *Asst. Mine Foreman.*

ROBT. WALLACE, *Inspector of Mines.*

GEO. IRVIN, *Fire Boss.*

POCAHONTAS CONSOLIDATED COLLIERIES COMPANY, INC.

P. O. WORTH, W. VA.

No. 1046. *Rolf Mine.*—This mine is located on the Northfork branch of the N. & W. R. R., three miles from Northfork. It is a drift mine operating the No. 3 Pocahontas seam. Ventilation is produced by a twelve foot fan which gives ample ventilation. The coal is mined by electric machines and pick mining. 110 men are employed inside the mine, producing about 800 tons per day. Coal is hauled by electric motors. Stoppings, timbering, roof and drainage are in good condition. This mine is kept moist by steam with sprays equipped on the steam lines. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

JAS. ELWOOD JONES, *Gen. Mgr.*

S. S. NUNN, *Mine Foreman.*

W. HEATHERMAN, *Supt.*

J. H. GHENT, *Asst. Mine Foreman.*

ROBT. WALLACE, *Inspector of Mines.*

P. L. COOK, *Asst. Mine Foreman.*

ZENITH COAL & COKE COMPANY.

P. O. CRUMPLER, W. VA.

No. 1047. *Zenith Nos. 1 and 2 Mines.*—These mines are located at the terminus of the Northfork branch. They are drift openings operating the No. 3 Pocahontas seam. They are connected inside and deliver their output to the same tipple. The coal is 4 feet, 6 inches thick and has a very hard slate roof, but is overlaid with 2 to 4 inches with a soft slate. Ventilation is produced by two twelve foot fans, one for each mine. On examinations to these mines, they have usually been found in a first class condition. Haulage is done by electric motors and mules. Coal is cut by pick and machine. Stoppings, timbering and drainage are in good condition.

There has recently been installed four Morgan-Gardner Low Vein Short-Walled Machines. Also three Gathering Locomotives of the Morgan-Gardner Type, two four-ton and one twelve-ton. One twelve-ton main line motor, which equipment compares with any mine in the field.

Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

A. D. RICE, *Gen. Mgr.*

T. B. WHITE, *Mine Foreman.*

G. G. GIBSON, *Asst. Mine Foreman.*

ELKHORN COAL & COKE COMPANY.

P. O. MAYBEURY, W. VA.

No. 1048. *Elkhorn Mine.*—Is a drift mine opening in the No. 3 Pocahontas seam. It is located near Maybeury on the main line of the N. & W. R. R. The seam is 7 feet to 10 feet high. The roof is very soft and very dangerous and requires careful timbering. On all inspections, the mine has always been found well timbered and ample timber on hand, and enough men to do this timbering. Ventilation is produced by a 16 foot fan. 140 men are employed in this mine and the daily output is about 1000 tons. Haulage is done by steam locomotives and mules. Stoppings and drainage in good condition. Clay is used for tamping. Rules are posted. Stretchers, blankets, safety lamps, record books and all necessary supplies are kept on hand as the law requires.

R. S. ORD, *Gen. Mgr.*

JOHN LITTLE, *Mine Foreman.*

LEVI LITTLE, *Panel Boss.*

JAMES HESLEP, *Panel Boss.*

FRANK HAROLD, *Panel Boss.*

A. J. TABOR, *Panel Boss.*

ELEVENTH DISTRICT.

GENERAL SUMMARY FOR THE ELEVENTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYEES.									Production of	
			Inside.						Outside.			Coal.	Coke.
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,200 lbs.
McDowell, (Part)	46	117	3,322	1,858	292	1,395	6,867	1,355	792	2,147	9,014	7,855,916	615,145
Total.....	46	117	3,322	1,858	292	1,395	6,867	1,355	792	2,147	9,014	7,855,916	615,145

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

MR. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

DEAR SIR:—I herewith submit my annual report to you, as inspector of the 11th mining district, for the fiscal year ending June 30, 1912.

I am sorry that the fatalities in this district were high during this fiscal year, owing to three explosions. The first of these occurred August 31, 1911, at the Standard Pocahontas shaft near Welch, at 9:30 P. M., while the night shift was working. The second occurred at the Bottom Creek Coal & Coke Company's mine, No. 1, November 18, 1911, at 11 A. M. The third occurred at the Jed Coal & Coke Company's shaft near Welch, March 26, 1912, at 8:30 A. M.

The explosion which occurred at the Standard Pocahontas Coal Company's shaft which was under construction at the time, the main shaft and air shaft not being connected, occurred in the face of the entry, driving towards the main shaft, which was not more than 65 feet from the foot of the air shaft. The superintendent at this shaft evidently did not know the dangerous condition of his shaft, as he employed any one to look after the safety of the men whom he could cheaply employ, not using a mine foreman at this time who had passed the qualifications of the State Mine Department. He was not familiar with the practical end of mining, and never had had charge of a mine before, which liberated gas. The condition the shaft is in today goes to show that he lacked mining knowledge.

Bottom Creek explosion would have been more serious had the company not injected steam into their intake air way, so as to keep the relative humidity of the mine not less than 90 per cent. If they had depended upon the old system of water box, which is so very inadequate this explosion would no doubt, have covered every section of the mine in which 150 men were working. The steam and radiator systems of humidifying the mine kept the relative humidity not less than 90 per cent, which is the only solution that will eliminate the possibility of a general explosion. This was clearly demonstrated at the Bottom Creek mine on the morning of November 18, 1911. The day of the explosion there was in rooms 6 and 7 on No. 11 entry an accumulation of fire damp which was ignited, without a doubt, by the engineers of the Land Company, as two of the engineers and the end of the chain were found 160 feet from the face. After the explosion, no evidence of a danger board could be found, which should have been there, if the company knew of any accumulation, but it should have been removed by the officials of this company before the mine was marked O. K. on the morning of the explosion. During my inspection of this mine I always made a special effort to visit all old workings for the purpose of determining whether or not any standing gas was in the mine and also made extra visits to this mine and many others for the purpose of seeing whether or not any standing gas was accumulating, but in no case have I ever found any accumulation of fire damp.

During my inspection on September 23, 1911, prior to this explosion in rooms 6 and 7, in which accumulation of fire damp existed and which caused the explosion,—these places were working check doors at the mouth of rooms 6 and 7, and were in good condition at the time I made the examination of this mine, Sept. 23rd. All companies in this district have been notified to inspect all old and abandoned works regularly, but where the explosion occurred was not in the old works and should have been inspected. The Jed explosion, which occurred on March 26th, 1912, with the loss of 81 lives, was in No. 2 main on first left entry, in sections from 8 to 10 room. This explosion would not have been general if the company had injected sufficient steam into the intake air way and which they promised the inspector of this district they would do. Six weeks prior to his explosion, Mr. P. A. Grady and myself, withdrew the men from this mine, owing to the mine being in a dusty condition. We went back two days later and found the mine satisfactory in general. We asked the management of this company what progress they were making in getting their pipes arranged so as to inject all of the exhaust steam into the air ways. On making an inspection of this particular part of the mine, we found that they had connected up to the pumps but not sufficient pipe to carry it to a convenient place to be injected into the air way. The superintendent assured us that this would be done in a few days. Had he completed this work, promptly, this explosion would have only been local. The dangerous factor especially in gaseous mines is where the operator permits contract work. This has been proven in several cases and a great many fatal and non-fatal accidents are caused through the neglect of the mine foreman and his assistants in not making their examination of the contract work as regularly as they do other sections of the mine. Too much is left to the contractor in charge.

Another dangerous practice which I trust will soon be abandoned, is that the fire boss should not be paid by the day. He should be paid by the month.

Especially in gaseous mines, as I have known in some cases where fire bosses are paid by the day, the mine foreman and superintendent will lay off everybody for the purpose of curtailing expenses if the mine is not working that day. If the fire boss is paid a monthly salary, the superintendent or mine foreman will make sure that he inspects the mine for any dangerous conditions at all times, whether the mine is working or not. One particular place in this field, the mine management insists on the fire boss inspecting the mine work or no work, and also on Sundays. And this is not a gaseous mine. The writer thinks that this is money well spent. For instance, in mines where there is no gas considerable falls of roof are encountered by the fire boss making his rounds in the morning, reporting to the outside, he concentrates his slate forces and sends them to any section of the mine where he has found trouble while making his inspection during the morning.

During my inspections of the year, there has only been one large body of gas discovered. This we suspected owing to its being at the highest point in the mine. Two rooms were driven through a solid block of coal to this point, using bore holes and safety lamps. This was at the Tidewater mine, but on boring through at this point it was found that there were several acres of explosive gas in the old works, which had caved in. After making the opening large enough for a large volume of air to pass over the falls, the air current was directed to the accumulation of gas. Upon turning the air current on this accumulation of gas, there were 14,000 cubic feet of fire damp liberated per minute for 96 hours. The electric current was cut off the mine while this accumulation was being released. The mine was shut down for several days, until it was put in a safe condition. Another accumulation of gas was found by the mine officials in the Shawnee mine, which was liberated from the upper strata owing to a large fall in the pillars. This was at a point where the company had just commenced to draw pillars. The company officials deserve credit for the way they handled this accumulation of gas. This mine also was shut down until no trace of gas could be found. In the Middle States Coal & Coke Co an accumulation of gas was found by the fire boss while making his rounds in the morning, which was liberated from two old rooms which had caved in, but not at the working faces. The company handled this accumulation of gas very successfully. This gas was liberated from the upper strata also. This shows the necessity of all mine officials in this district keeping a close watch on all old works and especially where pillars are drawn.

During the year I have made 181 mine inspections, the balance of the time being taken up with extra visits to mines to investigate fatal accidents and make inspections of the old and abandoned works. Considerable time has been spent during the year in holding mine foreman's examinations, which have been very successful and at this writing there is no mine foreman or fire boss holding a position in this district that has not passed the qualifications of the State Mine Department. The fatal accidents in this district should be more closely investigated by the mine officials. By investigating the fatal accidents more closely, it would help the foreman and his assistants in keeping closer touch upon all work under their charge. During the year several fatal and non-fatal accidents have occurred with the very best of our practical slate and timbermen, who have spent all their lives in the mine. Several of these accidents can be attributed to themselves in these particular mines in having

too much confidence in themselves. Systematic timbering should be adopted, especially by the independent operators in this field, and it should be seen that the roof is timbered properly, whether the roof is good or bad. This would reduce the fatalities in this district considerable. All the mines in this district have been notified by writing and orally, to adopt some humidifying system, so as to keep the relative humidity of the mine not less than 90 per cent during the cold season of the year. The letters sent out to the operators for this purpose have all been acknowledged, saying that they would comply with the request of the State Mine Department, and at this writing, nearly all the operators are making preparations in this line, except those that have completed this work already.

The system which they are using and about to use, to keep the mine at the relative humidity is either by radiator system, steam, or the latest improved water box. The water box invented by the Tidewater Coal & Coke Co. officials is the most completed water box the writer has seen in any section. This water box can be used in tandem, with the old water boxes, or single and while going in entries or rooms either pushed by a motor or pulled by mules. This will spray every section of the entry or room as it throws the water with such force that a mist is left behind.

The most complete and most economical system of humidifying the mines is used at the Powhatan mines, which is the radiator steam and water combined. A copy of the report on this radiator system will be found in this report of the Powhatan Mine.

During my inspections of the year, while making rounds in and about the mines and taking the matter up with the mine officials as to discipline, you very often hear them say, that they are afraid to force discipline, owing to the scare of men. They should be relieved of this idea, as one of the largest companies in this district, uses nearly navy and army discipline, also several other of the companies, and where the strictest discipline is used, I find that they have a better supply of men than those who are afraid of enforcing it.

Some mines in this district were transferred to the 12th district, making the east boundary of the 11th district commence at Ennis, Turkey Gap Coal & Coke Co., taking in all mines on the main line west to Welch, also including all mines on the Tug Fork. This change took effect Sept. 20, 1911.

Before closing this report, I deem it timely to publish a general summary of the general conditions of the United States Coal & Coke Company's mines at Gary, which I know will be of interest to the mining fraternity in general, of West Virginia.

The United State Coal & Coke Company, whose headquarters are at Gary, McDowell county, West Virginia, which Company is a subsidiary of the United State Steel Corporation, throughout the year 1912 have pursued their usual activity in advancing mining practices.

As stated in a previous paragraph in my report, all its mines are in first class condition, no fault being found with any of its mines in any particular, they being far in advance and exceeding all requirements of the law. In addition to this, their method of operation is carried out on the most intelligent lines, the mines being laid out and projected in all departments to the most minute details, headings, side tracks, air courses, traveling ways, man ways, cross cuts, and all other places marked on the projection. Size of tee on

location and size of pipe lines, either for water or air, location of trolley lines and feeder lines, as well as overcasts, stoppings for the direction of ventilating current, the material of which said overcasts and stoppings are to be built, being specified, the object being to maintain as much perfection in the mine projections as the architect does in the plans for the erection of his large buildings. This relieves and assists the mine official and enables him to devote his time to things purely executive, and follow the instructions as shown on the projection, excepting where his experience and daily contact with the mines shows how anything could be simplified, bettered, or accomplished more quickly by some other means. Then by having the matter taken up with the engineering department, the projections are very readily changed, and he is awarded and complimented for his foresight and interest.

Their operation is on what would be known as the "Deputy" system, as set out in the following rules; (Instructions Issued in Circular Letters.)

To see that these rules and regulations are properly followed out, the Company employs four inspectors, one who inspects the working place, to see that the timber is properly set, and that the rules laid down above, relative to mining, are enforced; another to measure the air once per month, to see that the rules relative to ventilation are followed out; another to inspect the electrical apparatus, etc., to see that they are kept in condition; and the fourth, who inspects everything in general, devoting himself principally to the transportation, maintenance of way and drainage departments. The inspector of working places and the inspector of transportation, roadways, drainage, etc., report daily to the main office, while the air and the electrical inspector report monthly.

In addition to this, they have a premium system for the prevention of accidents, whereby each official, from the mine foreman down, receives a cash premium each month if he is successful in preventing any accidents to the men who are working for him. The following is the method of awarding these premiums:—

QUALIFICATIONS. 1. No person shall be entitled to participate in the premium who has not passed an examination as to his physical and mental qualifications before a resident physician.

2. No man shall be eligible for a premium, for any month, in any position, who has not worked in that position every working day, excepting one, during that month, unless he shall have been promoted during the month from one position to another, and is eligible in both positions. No excuse will be accepted for sickness, vacation or any other cause.

3. His work must be satisfactory to his immediate superior, and if it is not satisfactory his superior has the right to charge him with demerits to the amount of ten per month.

4. This premium will not be considered as part of the assistant foreman or foreman's wages and is strictly in the nature of an award or a gratuity for faithful services rendered the company.

DISTRIBUTION OF PREMIUM. Premiums will be distributed on the following basis:

1. Each foreman or assistant foreman will be charged demerits for each man who is injured under his charge each month, at the rate of ten demerits

for each minor accident, twenty demerits for each serious accident and forty demerits for each fatal accident.

2. Any foreman or assistant foreman who does not have any accidents under him during the month will be given a credit of five merits, which will go toward reducing the number of demerits standing against him until all of the demerits are wiped out, when he will not be given any further merits until he again receives demerits.

3. No person who has ten or more demerits standing against him at the end of each month shall be entitled to any premium, but if he has less than ten demerits he shall receive the same premium as heretofore, namely, \$5.00 for the assistant foreman and \$10.00 for the foreman.

4. The foreman's account will be charged with all the demerits and credited with all the merits of the assistant foreman under him, excepting when demerits are given for neglect of duty or causes other than accidents.

5. The assistant foreman and foreman will have it distinctly pointed out to them by their immediate superior, what men or jobs are under their supervision.

6. If a foreman or assistant foreman leaves the employ of the company and later re-enters it, he will assume all demerits charged against him when he left its employ.

7. The basis of giving premiums may be discontinued at any time when it is decided that the purpose for which it is intended (the elimination of accidents) is not accomplished.

8. Any mine boss or assistant, who for six consecutive months is entitled to a monthly premium of \$10.00 or \$5.00, under rules given above, will at the end of the sixth month receive a special premium of \$15.00 and for each month thereafter so long as his record is up to the requirements. If his record falls below the requirements under the rules given above, he will have to make a clear record for another six months, before he is entitled to a special premium.

They also pay a premium to mining machine runners, for the purpose of keeping down repair cost to mining machines, as set out below:—

\$15.00 per month will be awarded to the works which cut the greatest number of places with the least cost for material repairs to its mining machines, which is paid to the man who makes the best record at the works. No man will be eligible who does not cut 150 places during the month.

They also have what is known as an efficiency department, whereby the efficiency of each man in the mine is recorded each day. After a thorough investigation, they established rules specifying a certain amount of work that would be considered a full day's work for the average man, and which they call 100 per cent. Every man who goes in the mines each day is supposed to make, or to be given an opportunity to make 100 per cent efficiency. The foreman and assistant foreman are required to furnish a reason why any man is not an opportunity to make a 100 per cent efficiency. The average efficiency made by all the men in each department is recorded and returned to the Gary office each month for the purpose of comparing the efficiency of the men working in one mine with the efficiency of the men working in the other. This system alone has resulted in increasing the earnings of piece workers in the mine about one-fourth, as under this system, each lader or pick miner who

goes in the mines each day is sure to get all the cars he can load that day, unless something unforeseen and unpreventable occurs at the mines.

Below is what is considered 100 per cent efficiency in the different items of work:—

- 100 per cent equals 12 cubic yards—loading dirt from roads.
- 100 per cent equals 15 cubic yards—cleaning slate falls.
- 100 per cent equals 20 cubic yards—cleaning rash falls.
- 100 per cent equals 50 feet—60 lb. track, complete.
- 100 per cent equals 60 feet—40 lb. track, complete.
- 100 per cent equals 70 feet—30 lb. track, complete.
- 100 per cent equals 80 feet—20 lb. track, complete.
- 100 per cent equals 115 tons—hauling—mules.
- 100 per cent equals 9 cubic yards—horseback.
- 100 per cent equals 375 tons—hauling mechanical, per 13 ton motor.
- 100 per cent equals 15 tons—miners and loaders.
- 100 per cent equals 8 places cut—mining machine runners.
- 100 per cent equals 4 cubic yards—concrete.
- 100 per cent equals 60 feet—drilling 2½ inch holes in rash with breast augur.
- 100 per cent equals 25 feet—drilling holes in slate with post augur.
- 100 per cent equals 30 feet—drilling holes in sand rock with power drill of hammer type.

100 per cent equals 300 feet—board measure—setting timbers, posts, building brattices, overcasts, and forms for concrete.

Their miners or piece workers exceed this efficiency, and during some months, the miners and loaders average 115 per cent.

In addition to the premiums mentioned above, there is a premium awarded to the householders for the best kept yard and garden at each of their twelve plants, once each year. This inspection is made by a committee of disinterested persons, who are experienced in the agricultural pursuits of the country.

New mines in this district are Peerless Coal & Coke Company's mine No. 2, located at Vivian; Black Wolf mine No. 2, at Dearing, W. Va. This is opening the No. 3 Pocahontas seam, but will use the No. 4 seam tippie.

In conclusion I wish to thank the operators, mine officials, and miners for their able assistance rendered at the explosions which occurred in this district. Also the able assistance rendered in having the mining laws of West Virginia enforced. Also the chief of the department of mines, for his able and prompt counsels and his hearty co-operation in this district.

Respectfully submitted,

WM. NICHOLSON.

Mine Inspector of the Eleventh District of West Virginia.

MC'DOWELL COUNTY.

KING COAL CO.

KIMBALL, W. VA.

General Offices of Company, Vivian, W. Va.

No. 1101. *King Mine*.—This is a slope mine and is operating the No. 3 Pocahontas seam, and is located a half mile from Kimball on Laurel Creek. Ventilation is produced by a 16 foot Capell fan, and averaging 180,000 cubic

feet of air per minute. This mine was shut down several days during the year, owing to being drowned out with water at the foot of the slope. The pumps were very insufficient at this time for the amount of water which they were expected to handle. Owing to the large amount of water at the foot of the slope, it cut off the ventilation from the mine, allowing the mine to fill up with Marsh gas. When sufficient pumps were installed to remove the accumulation of water, the company officials used every precaution in removing the gas in the mine which was done very successfully. The traveling way in this mine was in poor shape during part of this year, but at this writing it has been put in first class condition. Shot firers are used to do the shooting of all holes, except in the main entry. In these particular places, the miners do their own shooting, owing to the wet nature of the coal. As soon as the holes are bored, it is necessary for them to shoot them as soon as possible. Otherwise, the powder would become damp. Timbering throughout the mine in general is good. Roof is very bad in sections. During the winter months the exhaust steam from the fan and pumps is injected into the intake air way, which keeps this mine absolutely moist during the cold season of the year. Discipline in this mine is extra good. The checking system is installed in this mine and is carried out to the letter. Haulage is done by electric motors from side tracks and gathered with mules. Mine rules and mining laws are posted. All safety lamps are kept in good condition.

W. H. BORDEN, *Gen. Mgr.*

SAM CAMPBELL, *Gen. Supt.*

ED. NICHOLSON, *Mine Foreman.*

ALEX LONDON, *Asst. Mine Foreman.*

LAWN STRUM, *Asst. Mine Foreman.*

CHAS. NUTTALL, *Asst. Mine Foreman.*

DICK MATTHEWS, *Fire Boss.*

FRED TAYLOR, *Fire Boss.*

WM. BEAR, *Fire Boss.*

TIDEWATER COAL & COKE CO.

VIVIAN, W. VA.

General Offices of Company, Vivian, W. Va.

No. 1102, *Tidewater Mine*.—This mine is located on the main line of the N. & W. Railway and is a drift opening, which is open at water level. Ventilation is produced by 16 and 10 foot fans and is giving fairly good ventilation, and is properly distributed to the working faces. Progress has been very slow during the past year in completing the new additional air courses. When completed, this will make a big improvement to this mine, as it has been needed badly for years. All stoppings on the main entry and cross entries are built of rock and faced with cement. The roof in this mine is very bad, in general. Haulage is done by mules and electric motors. During the fore part of March, 1912, two places were driven at the head of No. 13 entry; also at the head of No. 10 entry, into the old works, and we found considerable accumulation of fire damp. Owing to this large accumulation of gas, the mine was shut down for several days. Recommendations have been furnished this company that there is no alternative but to bore holes down from the surface so this accumulation will not occur again. The company at all times have been willing and ready to carry out any recommendations made

by the inspector or inspectors. Since this accumulation of gas was cleaned out at this writing I have only been able to detect gas in these places upon one occasion. All mine officials of this company have passed the qualifications of the State mine department and I must say that they have looked after the safety of the men in general and have also carried out all instructions given to them by the inspector in charge. All supplies, as required by the law on hand.

CHAS. W. BOARDMAN, *Gen. Mgr.*

OTT SMITH, *Mine Foreman.*

W. C. EASLEY, *Supt.*

HARRY HULUM, *Mine Boss.*

SAM CAMPBELL, *Asst. Supt.*

THOS. STOCKDALE, *Fire Boss.*

FRANK WELLS, *Fire Boss.*

BOTTOM CREEK COAL & COKE CO.

VIVIAN, W. VA.

General Offices of Company, Vivian, W. Va.

No. 1103. *Bottom Creek Mine No. 1.*—This is a drift mine, located on the main line of the N. & W. Railway 9 miles west of Welch, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 16 foot Capel fan, which is giving ample ventilation throughout the mine. Several automatic trap doors have been installed during the year. Also two overcasts, the air being split in three separate currents. On November 18, 1911, an explosion occurred at this mine in No. 11 entry on No. 6 and No. 7 rooms, which caused the deaths of 18 men, 9 being killed instantly but feeling the concussion, immediately walked out into the fire damp and died. If these men had had the presence of mind and gone on the air course side, of the intake air, they would have escaped without a doubt. During every inspection I have made in these mines, I have scoured the old works to determine whether there was any accumulation of fire damp but have never been able to detect any. During my inspection before this explosion, these rooms where the explosion occurred, were working. Undoubtedly they had been neglected by some one or this accumulation could not have occurred. Enclosed find copy of joint inspectors' report on the explosion. During my last inspection of this mine, I had no complaint to make either with the company or the officials. It was very fortunate that steam was used in this mine, as this was the only thing that stopped this from being a general explosion all over the mine. All supplies required by law, on hand; all records properly filled out.

SAM PATTERSON, *Gen. Mgr.*

JOHN MAURICE, *Mine Foreman.*

GEO. S. PATTERSON, *Supt.*

JOHN WILSON, *Fire Boss.*

BOTTOM CREEK COAL & COKE CO.

VIVIAN, W. VA.

General Offices of Company, Vivian, W. Va.

No. 1104. *Bottom Creek Mine No. 2.*—This is a drift mine, located on the main line of the N. & W. Railway, 9 miles west of Welch. Ventilation is produced by a 7 foot disc fan which is giving fairly good results. No gas is being detected in this mine up to the present time. The roof in general is bad. All miners are properly supplied with props and cap pieces. Very little dust has been encountered in this mine during the past year. The second

opening meets the requirements of the law. All supplies as required by law on hand.

SAM PATTERSON, *Gen. Mgr.*

W. A. DILLARD, *Mine Foreman.*

GEO. S. PATTERSON, *Supt.*

W. SCOTT, *Asst. Mine Foreman.*

JED COAL & COKE CO.

JED, W. VA.

A. H. STORRS, *Receiver.*

General Offices of Company, Welch, W. Va.

No. 1105. *Jed Shaft.*—This shaft is located on the branch line of the N. & W. Ry. on Tug Fork 2 miles from Welch. Ventilation is produced by a 24 foot Giaball fan, and is split in two separate currents and properly distributed to the working faces. Considerable trouble was encountered during the year with the company officials in not keeping the mine properly watered and allowing dust to accumulate. On several occasions this mine was inspected jointly and men removed from the mine where dusty conditions existed. The system this company has for watering the dust was very crude and inadequate,—using a common water box which should have been discarded, and which was recommended several times to be abandoned. The writer never had any complaint to make of this shaft as to ventilation. All coal was cut by electric breast machines. All shooting was done with shot firers, using permissible powder with electric detonators. Exhaust steam from the pumps should have been used on the intake air current, and was recommended by the inspectors during the past year. On March 26th, 1912, an explosion occurred about 8:30 A. M., in which 81 lives were lost. The initial of the explosion was on No. 2 main and No. 1 cross entry. This entry was all contract work, with one man being in charge of this section. Two fire bosses were used in the shaft at all times, up to within one month prior to the explosion. At this writing No. 2 section has been put in perfect working order; all stoppings and overcasts being replaced. No. 1 section is under construction. All supplies as required by law on hand.

HARVEY SORES, *Gen. Mgr.*

J. H. HENRY, *Mine Boss.*

W. LECKIE, *Gen. Mgr.*

P. J. DOOLIN, *Mine Foreman.*

O. N. KNUFF, *Supt.*

W. J. WOODWARD, *Fire Boss.*

W. DIXON, *Fire Boss.*

P. S. I herewith enclose inspectors' report of disaster which occurred on March 26, 1912.

BLACK WOLF COAL & COKE CO.

DARING, W. VA.

General Offices of Company, Eckman, W. Va.

No. 1106. *Black Wolf Mine.*—This is a drift mine and is located on Tug Fork of the N. & W. Ry. 6 miles from Gary and is working the No. 3 and No. 4 Pocahontas seam. During the year a new 12 foot fan has been installed, which is giving ample ventilation to the working places. During the year there has been a new change in the management, which has made a decided change both in and outside of the mine and was badly needed. The roof in this mine is very bad, being of a friable nature. The new management has installed cutting machines to cut the coal in the middle, which has eliminated

the dangerous practice of heavy shooting. All slate and rock is shot with permissible powder and electric detonators. All stoppings on the main entry and cross entries are built with——— split and faced with cement, which is very satisfactory. Electric motors are used for haulage purposes from all side tracks, using mules for the purpose of gathering. All electric wires are being repaired, which heretofore have been in bad condition. Clay is used for the tamping of all holes. Miners are complied with abundant props and caps to do the timbering in their own places. Before the new management took hold of this mine, the company used timbermen to set each and every prop in all working places. This, I consider a very dangerous practice, as in many cases, the miners would be working under dangerous roof, waiting for the timbermen to come and set a prop where it would not have taken them more than one or two minutes to set the prop themselves. All supplies, as required by law, on hand. Mine foreman's record and air measurements are properly filled out.

MORRIS WATTS, *Gen. Mgr.*
S. G. BRALLY, *Supt.*

TOM SCOTT, *Mine Foreman.*
JOHN LANGTON, *Mine Foreman.*

PAGE COAL & COKE CO.

PAGETON, W. VA.

General Offices of Company, Philadelphia, Pa.

No. 1107. *Mine No. 2.*—This mine is located at Pageton, and is working No. 3 Pocahontas seam. Ventilation is produced by two 5 foot electrically driven fans. Ventilation of this mine during the last inspections has at all times been found in good condition. Coal is cut by both pick and machines using no shot firers for machine work. This, I consider is a dangerous practice, as the charge of powder which is used for the thick seam is dangerous for any one to handle outside of a good, practical shot-firer. During my last inspections at this mine the timbering was neglected considerably, such as men working underneath draw slate that should have been posted or taken down. The mines were supplied well with timbers but the mine officials of this mine were very slack in discipline.

All stoppings on the main entry and cross entries are built of masonry. Clay is furnished and put at suitable places for the miners to use for tamping, but in some cases miners were using coal.

Gathering motors were used in this mine. During my inspection I have found this mine in a very damp condition the year round; all supplies as required by law, on hand.

SAM EVANS, *Mgr. & Supt.*

THEO. HANNA, *Mine Foreman.*

PAGE COAL & COKE CO.

PAGETON, W. VA.

General Offices of Company, Philadelphia, Pa.

No. 1107. *Mines No. 1 & 3.*—This is a drift mine, and is located at Pageton; is working No. 3 Pocahontas seam. One tippie is being used for the No. 1, No. 2 and No. 3 mines. Ventilation is produced by an 18 foot fan for the No. 1 and No. 3 mines, and it is giving ample ventilation. The roof in general in all rooms is good, but the roof in pillar work is bad and very treacherous. All stoppings and overcasts on the main entries are built of

masonry using board stoppings for all cross entries. Coal is produced by both pick and machines. Haulage is being done by electricity and mule power. All places are properly supplied with timbers for cap pieces. All other supplies, as required by law, are in good condition.

SAM EVANS, *Gen. Mgr. & Supt.*

J. A. GALLIMORE, *Mine Foreman.*

ANDY DEBROSKI, *Asst. Mine Foreman.*

CENTRAL POCAHONTAS COAL CO.

ANAWALT, W. VA.

General Offices of Company, Anawalt, W. Va.

No. 1108-1109. *Nos. 1 & B Mine.*—This mine is located at Anawalt, at the head of Tug Fork and is working No. 3 Pocahontas seam. Ventilation is produced by furnace which is in use at all times. As all workings in this mine are near the out-crop and natural ventilation, which is ample at times, owing to having so many openings to the outside.

This mine has been shut down considerably during the past year, owing to the depression in business. Permissible powder is used with the electric detonators. All coal is produced by pick. The thickness of this seam is 9½ to 10 feet. The mine is in a damp condition the year round.

H. T. GRAHAM, *Superintendent.*

S. M. MONEY, *Mine Foreman.*

WEST VIRGINIA-POCAHONTAS COAL CO.

LECKIE, W. VA.

General Offices of Company, Welch, W. Va.

No. 1110. *No. 1 & 2 Mines.*—These mines are located at Leckie, W. Va., on a branch line of the Norfolk & Western Railway, on Tug Fork, 21 miles from Welch, and are working No. 3 Pocahontas seam. The coal is undercut by electric machines in the No. 1 mine, using a permissible powder. Ventilation is produced by an 8 foot fan, but is very unsatisfactory. At this writing the company has installed a new electric fan. Also have installed a substation in connection with the Appalachian Power Company's main line. Drainage in sections of the No. 1 mine have been poor. In No. 2 mine, coal is produced by pick. Ventilation is produced by a six foot Stire fan, electrically driven. A small fan was installed in this mine owing to the small acreage in lease. This mine has been found in good condition at all times during my inspection; all supplies as required by law have been kept in good condition.

W. B. BEALS, *Supt.*

WM. SMITH, *Mine Foreman.*

WM. LECKIE, *Gen. Mgr.*

ROBT. SMITH, *Asst. Mine Foreman.*

POCAHONTAS CONSOLIDATED COLLIERIES CO.

JENKIN JONES, W. VA.

General Offices of Company, Pocahontas, Va.

No. 1111. *No. 6 Mine.*—This is a new mine located on North Fork of Tug river 5 miles from Anawalt, on a branch line of the N. & W. Ry. and is working the No. 3 Pocahontas seam. Ventilation is produced by an 8 foot fan, which is giving ample ventilation, and will for years to come. All coal is cut by electric machines in the middle of the seam, which eliminates the dangerous practice of heavy charges of powder.

During my inspection of this mine, only entries were driven. Preparations

are being made for this and other mines to make this one of the largest producing coal towns in the State. Several other mines will be opened, for which new tipples are now under construction. Electric trolley system is to be installed to take the men to and from their work from the town of Jenkin Jones to the several mines which are under construction. This company is throwing all safeguards available around their employees. The supplies required by law on hand.

JAS. ELWOOD JONES, *Gen. Mgr.*

C. C. MITCHELL, *Mine Foreman.*

C. W. ATKINS, *Supt.*

C. H. BOWERS, *Mine Foreman.*

CIRRUS COAL & COKE COMPANY.

General Office of Company, Pocahontas, Va.

No. 1112. *Mine No. 2.*—This is a slope mine and is working the No. 3 and No. 4 Pocahontas seam. Ventilation is produced by an 8 foot Disc Jeffrey fan, which is giving ample ventilation throughout the mine. The Pocahontas Consolidated Collieries Company took this mine over April 1, 1912, and from this date on it is controlled by that company and next year will be reported as Pocahontas Consolidated Collieries Company's mine. Since the latter took hold of this mine they have made considerable improvements. Average thickness of the coal is 5 feet, 8 inches. The roof in general is very good. At this writing an air shaft is under construction to the No. 3 and 4 seams. After completion the company expects to put in a large fan, which will ventilate both seams. All supplies required by law on hand. Mine foreman and fire boss's records properly filled out.

JAMES ELWOOD JONES, *Gen. Mgr.*

LAWN STURM, *Mine Foreman.*

HARRY HULM, *Fire Boss.*

A. C. PITTMAN, *Fire Boss.*

MIDDLE STATES COAL & COKE CO.

OLMSTED, W. VA.

General Offices of Company, Olmsted, W. Va.

No. 1113. *Holera Mine.*—This is a shaft mine and is working the No. 4 Pocahontas seam. Ventilation is produced by an 18 foot Capel fan, which is giving ample ventilation throughout the mine. During the year one overcast has been built of concrete, which gives an additional split to the air current. Steam was injected into the mine during the winter months in large quantities using the exhaust steam from the fan and also from the pumps, with an additional 2 inch pipe of live steam which comes direct from the boilers. This has practically eliminated the water box, which has been used in this mine heretofore. All coal is cut by electric machines. All haulage is done by electric motors, using no mules in the mines. The fire boss in this mine makes his regular inspections to all old and abandoned works. The mine was idle one day, owing to accumulation of gas, which was caused by two old rooms caving in and liberating large quantities of explosive gas. This body of gas was discovered while the fire boss was making his rounds in the morning. It is my opinion if he had not inspected this particular place, without a doubt they would have had a serious explosion. During the past year, all mine officials

have thrown all safe-guards available around their employees. All supplies, as required by law, on hand. The mine foreman and fire boss's records are properly filled up.

HARRY OLMSTED, *Gen. Mgr.*

JOHN BULMER, *Mine Foreman.*

DAVID EVANS, *Supt.*

JOHN BOLLING, *Mine Foreman.*

DAVE BARBER, *Fire Boss.*

DIXON-POCAHONTAS FUEL CO.

DIXONOCA, W. VA.

General Offices of Company, MacDonald, W. Va.

No. 1114. *South Side Mine No. 2.*—This is a shaft mine and is located on the main line of the N. & W. Railway at Huger, three miles west of Welch, and is working the No. 4 Pocahontas seam. The output of this mine has been very small during the past year, owing to the rolling condition of the seam in sections. During the last winter steam was injected into the mine to keep the mine in a moist condition with very satisfactory results. The only dangerous condition at this mine is the using of 500 volts on their trolley wire with low conditions. All supplies required by law, on hand.

HARRY PINKNEY, *Supt.*

S. HILDRIDGE, *Mine Foreman.*

JOHN BULMUR, *Mine Foreman.*

WM. DIXON, *Fire Boss.*

DIXON-POCAHONTAS FUEL CO.

DIXONOCA, W. VA.

General Offices of Company, MacDonald, W. Va.

No. 1115. *North Side Mine No. 1.*—This is a shaft mine and is working the No. 3 and No. 4 seam. The No. 4 seam was practically abandoned the past year. Considerable trouble was encountered in the No. 3 seam owing to water, bad roof, and the coal being irregular at this section. Ventilation is produced by a 16-foot Capel fan, which is giving ample ventilation to the No. 3 and No. 4 seams. Gas is liberated very freely in the No. 3 seam. Exhaust steam was used also in this mine during the winter months to keep the mine in a damp condition. 500 volts is used which is dangerous. All supplies as required by law are on hand.

HARRY PINKNEY, *Supt.*

THOS. WELDON, *Mine Foreman.*

WM. PRUNTIN, *Fire Boss.*

VIRGINIA FUEL CO.

BIG FOUR, W. VA.

General Offices of Company, Big Four, W. Va.

No. 1116. *Virginia Mine.*—This is a slope mine and is working the No. 3 Pocahontas seam. This mine has worked very little during the past year, owing to the mine having so much water. During the first part of April, Elkhorn Creek broke into the mines and filled the mine up, within 20 minutes from the time the water broke through. Fortunately, no one was in the mine, and at this writing the mine is partly filled up with water. The roof in

this mine is very bad. Ventilation is produced by a 5 foot Stine fan, which gives ample ventilation for the size of the mine. All supplies required by law, on hand.

J. A. STATEN, *Gen. Mgr. & Supt.*

I. L. KIFFINGER, *Mine Foreman.*

I. L. KIFFINGER, *Fire Boss.*

PEERLESS COAL & COKE CO.

VIVIAN, W. VA.

General Offices of Company, Philadelphia, Pa.

No. 1117. *Peerless Mine.*—This mine is located on the main line of the N. & W. Railway and is working the No. 3 Pocahontas seam. During the past year two electric coal cutting machines have been installed and one additional haulage motor. Ventilation is produced by a 14 foot Jeffrey fan, which is giving ample ventilation for all sections of the mine. A 6 foot water main has been installed in this mine, which connects with a large tank on the outside and also gives abundance of water pressure. 2 inch lines are installed in all cross entries. This mine is in first class condition so far as keeping the dust well watered down for this coming winter. Haulage is being done by electric motor for side track. Tracks throughout this mine are in good condition. Several automatic trap doors have been installed during the year. All supplies required by law, on hand.

R. Y. LUTHER, *Gen. Mgr. & Supt.*

TOM BARRETT, *Mine Boss.*

W. A. ROBERTS, *Mine Boss.*

J. J. HILL, *Fire Boss.*

PEERLESS COAL & COKE CO.

VIVIAN, W. VA.

General Offices of Company, Philadelphia, Pa.

No. 1117. *Peerless Mine No. 2.*—This is a new mine working the No. 3 Pocahontas seam at Vivian. Natural ventilation is all that is necessary here at present, as at this writing each drift is in not more than 50 feet. A new steel tippie has been erected with a conveyor which carries the coal from the drift mouth to the top of the tippie before screening. This mine will be developed on the three entry system, using the two entry system for cross entries. At present the coal is dipping very much from the drift mouth, which is only a local condition. This will be one of the most up-to-date mines in the district.

R. Y. LUTHER, *Supt.*

SAM MITCHELL, *Mine Foreman.*

EMPIRE COAL & COKE CO.

LANDGRAF, W. VA.

General Offices of Company, Landgraf, W. Va.

No. 1118. *Empire Mine.*—This mine is located on the main line of the N. & W. Railway, 10 miles east of Welch. This is a drift mine. Ventilation is produced by a 15 foot fan. Gas is generated in this mine but not in large quantities. During the past year this mine has been found in first class condition in every respect. The general manager of this company gives his mine foreman abundant assistance. In each section of this mine, Timbering is in good condition throughout the mine. Clay is put in suitable places for

the miners to use for the tamping of all holes. Dynamite has been abandoned. Permissible powder is used for the shooting of coal in pillars which are dry. Preparations are being made to inject steam into this mine during the coming winter. All supplies required by law on hand.

W. D. ORD, *Gen. Mgr.*

D. W. FARQUHARSON, *Mine Foreman.*

H. BARRETT, *Asst. Mine Foreman.*

WM. NORRIS, *Fire Boss.*

SHAWNEE COAL & COKE CO.

ECKMAN, W. VA.

General Offices of Company, Eckman, W. Va.

No. 1119. *Shawnee Mine*.—This is a drift mine located at Eckman, W. Va., and is working the No. 3 Pocahontas seam. Ventilation is produced by a 14 foot fan, which is giving ample ventilation which is properly distributed to the working faces. During this year a new opening has been made near the working faces, which has reduced the friction of the air considerably. The main entry of this mine and several cross entries have reached the extreme end of their lease and have commenced to retreat. On November 20, 1911, the company officials expecting to have the first fall through the drawing of pillars, kept a careful watch over this part of the work, as they expected that gas would be liberated. The fire boss making his rounds on the following morning discovered a large accumulation of gas. This accumulation of gas was handled very successfully by the mine officials. The mine did not work till no trace of gas was found. The general manager of this company has instructed his officials that whenever any gas is discovered in even small quantities, the mine must not work till this is removed. This is the only mine in this district that the general manager insists that his mine must be inspected each and every day, including Sundays. Several tons of salt is scattered throughout the mine during the latter part of the summer months; water box is used with electric attachment to spray the mine in general. Overcasts are used and built of masonry; also stoppings on the main entry. The roof in this mine is bad in sections. All miners are properly supplied with posts and clay. Rules and mining laws are properly posted and kept in good condition. All other supplies required by law, on hand.

MORRIS WATTS, *Gen. Mgr.*

M. A. SEXTON, *Mine Foreman.*

J. C. CAMPBELL, *Gen. Mgr.*

W. J. CARTER, *Fire Boss.*

W. H. KESSLING, *Fire Boss.*

EUREKA COAL & COKE CO.

ECKMAN, W. VA.

General Offices of Company, Powhatan, W. Va.

No. 1120. *Eureka Mine*.—This is a drift mine and is working the No. 3 Pocahontas seam. Ventilation is produced by a 16 foot fan, which gives ample ventilation to the mine. Overcasts are used to make the proper split in the air current. Automatic doors are used in general throughout the mines. The roof is bad in sections. Cross bars are used in general, both in rooms and entries, owing to the bad condition of the rooms. Preparations are being made at this writing to put in a humidifying system the same as is used in the Powhatan mine. During the past two winters, steam has been injected into

the mine, which has proved very satisfactory. The mine foreman at this mine has, at all times, had the miners keep a prop set in front of the car to avoid any fatal or serious accidents. Break-throughs are driven at the proper distances. All stoppings on the main entry are built of masonry, also overcasts. Rules and mining laws are posted in a conspicuous place and kept in good condition. All of the supplies required by law, on hand.

L. E. TIERNEY, *Gen. Mgr.*

L. J. SOUTH, *Mine Foreman.*

C. W. CHAMBERS, *Supt.*

R. H. SOUTH, *Asst. Mine Foreman.*

J. A. DALTON, *Division Supt.*

L. V. MATTHEWS, *Fire Boss.*

PULASKI IRON CO.

ECKMAN, W. VA.

General Offices of Company, Philadelphia, Pa.

No. 1121. *No. 1 & 2 Mines.*—These are drift mines and are located on the main line of the N. & W. Railway at Eckman, 11 miles east of Welch, and are working the No. 3 Pocahontas seam. Ventilation is produced by a 16 foot fan, which gives ample ventilation, properly distributed to the working faces. These mines during my inspections have been kept in first class condition. All recommendations furnished this company have been cheerfully carried out. All overcasts, stoppings, on the main entries are built of masonry. Electric wires are in good shape, using protection boards at each crossing. All old and abandoned works are inspected regularly in case of any accumulation of gas. During my inspection of this mine, I have never detected gas in either the solid or abandoned works. This company, during the summer months of the year, scattered several tons of salt through different sections of the mine which cannot be reached without electric water box. All break-throughs are driven as required. Copies of the mining laws are posted, and also copies of mine rules. All supplies required by law on hand.

F. E. CUNNINGHAM, *Supt.*

J. M. SHENK, *Mine Foreman.*

JAS. MCGINNIS, *Asst. Mine Foreman.*

W. S. KESLING, *Fire Boss.*

PULASKI IRON CO.

ECKMAN, W. VA.

General Offices of Company, Philadelphia, Pa.

No. 1121. *Mine No. 3.*—This is a drift mine and is working the No. 3 Pocahontas seam. Ventilation is produced by a 10 foot Jeffrey fan which is capable of giving 200,000 cubic feet per minute. This is a new mine and is one of the most complete operations in the field. All drifts are built of concrete. The main air ways are kept absolutely free from all obstruction. Draw slate is taken down and removed to the outside. No rooms will be turned in this mine until all entries have reached the boundary line. The average thickness of coal is 8 feet. Width of entries, 12 feet. All breakthroughs are driven as required by law. All supplies required by law on hand.

F. E. CUNNINGHAM, *Supt.*

J. M. SHANK, *Mine Foreman.*

KEYSTONE COAL & COKE CO.

KEYSTONE, W. VA.

General Offices of Company, Elkhorn, W. Va.

No. 1122. *Mines No. 1 & 2.*—These are drift mines and located at Keystone on the main line of the N. & W. Railway. Ventilation is produced by an 18 foot fan, electrically driven. This mine is developed on the double entry system. Rooms driven at 85 feet centers. The roof in these mines are generally good. Very little trouble is encountered in these mines in extracting the coal from the pillars. This, I attribute to the management using an extra large pillar between the rooms. Gathering motors are used in general throughout both mines. Considerable improvement work has been done at these mines in cleaning up the air courses, which is giving them a much larger area, and was badly needed. During the year this mine was taken over by the Houston Coal & Coke Co., but the name of the Keystone Coal & Coke Co. is still retained. No change has been made in the management except the general manager. These mines have been found in very good condition throughout the year, except the main entries have been allowed to accumulate falling rock and coal, which has leaked through the cars through this equipment being poor, which has kept the mine entries in a very sluggish condition. All coal is cut by pick. Miners are well supplied with props. Fire boss and mine foreman's records are properly filled out. All supplies required by law are on hand.

BENJ. LEWIS, *Gen. Mgr.*JAMES SMITH, *Mine Foreman.*FRANK STEELE, *Supt.*OTT SMITH, *Mine Foreman.*LEX SMITH, *Mine Foreman.*Q. A. MANIS, *Fire Boss.*

LYNCHBURG COAL & COKE CO.

KYLE, W. VA.

General Offices of Company, Powhatan, W. Va.

No. 1123. *Lynchburg Mine.*—This mine is located at Kyle, W. Va., on the main line of the N. & W. Ry., east of Welch, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 16 foot fan, which gives ample ventilation throughout the mine. All coal is produced by pick. Haulage is done by electric motors and mules. Considerable improvement has been made in this mine during the past year, such as cleaning up all air courses and putting in a new concrete drift mouth. During the year this mine has been kept in good condition. At this writing there is under construction a humidifier, the same that is installed at the Powhatan mine. Clay is used for the tamping of all holes. Permissible powder is used for the shooting of all rocks. All supplies as required by law, on hand. Mine foreman and fire boss's records are properly filled.

L. E. TIERNEY, *Gen. Mgr.*THOS. FITZSIMMONS, *Mine Foreman.*J. A. DALTON, *Gen. Supt.*JOS. ARMSTRONG, *Fire Boss.*

POWHATAN COAL & COKE CO.

POWHATAN, W. VA.

General Offices of Company, Powhatan, W. Va.

No. 1124. *Powhatan Mine.*—This mine is located on the main line of the N. & W. Ry., at Powhatan, and is working the No. 3 Pocahontas seam. Venti-

lation is produced by a 16 foot fan, which gives ample ventilation throughout the mine and is well distributed. The roof is good in general. Coal is produced by pick and machine. Haulage is done by electric motors and mules. Drainage is good. Clay is used for the tamping of all holes. All rock is shot with permissible powder and electric detonators. This mine has one of the most complete radiator systems to keep the mine in the proper relative humidity. Several tests have been made of this humidifier during the year. The old water box system has been discarded absolutely. During the inspections of this mine, the past year, it has been kept in a properly damp condition at all times. During the cold season a report was made by the writer and Mr. P. A. Grady, of this humidifier and the condition of the mine, at the request of the head of this department, copy of which is enclosed. Mine foreman and fire boss's records are properly filled. All supplies required by law are on hand.

L. E. TIERNEY, *Gen. Mgr.*

H. J. REED, *Mine Foreman.*

J. A. DALTON, *Division upl.*

JOHN SMITH, *Fire Boss.*

UPLAND COAL & COKE CO.

ELKHORN, W. VA.

General Offices of Company, Upland, W. Va.

No. 1125. *Upland Mine.*—This mine is located at Upland on the main line of the Norfolk & Western Railway, and is working the No. 3 Pocahontas seam, which averages from 7 1-2 to 8 1-2 inches in thickness.

Ventilation is produced by a 20 foot fan, and the air is well distributed to the working faces. All stoppings and overcasts are built of masonry. Drainage throughout the mine is good. Roof is very bad and treacherous on pillar work. Roof in rooms is very good, except the thin draw slate in sections. Coal is produced both by pick and electric machines. All shooting and machine work is being done by shot fires, the breaking shot being loaded out before the side shots are fired. Clay is used for tamping throughout the mine. Haulage is done by electricity, and mule power. All supplies as required by law, are on hand and kept in good condition.

J. J. LINCOLN, *Gen. Mgr.*

J. A. GRANTHAM, *Mine Foreman.*

SAM EARNEST, *Asst. Mine Foreman.*

CHAS. BRYANT, *Asst. Mine Foreman.*

W. N. PACK, *Asst. Mine Foreman.*

HOUSTON COAL & COKE CO.

ELKHORN, W. VA.

General Offices of Company, Elkhorn, W. Va.

No. 1126. *Houston Mine No. 1.*—This mine is located on the main line of the Norfolk & Western Railway, 16 miles east of Welch, at Elkhorn, and is working the Pocahontas No. 3 seam. This seam averages in thickness from 6 to 8 feet. On the extreme edge of their lease the coal is split, which is characteristic in several mines in this section.

The roof is very good. All coal is produced by pick, using electricity for haulage. Ventilation has been found at all times very satisfactory. Stoppings on the main entry are built of masonry, using board stoppings for all cross entries.

During inspections at this mine I have found it at all times in good condition; also having one of the most up-to-date and neatest first-aid supply houses, with running hot and cold water, built on the outside, as one could possibly desire.

Preparations at this writing are being made to use the radiator and steam system this coming winter, so as to have the relative humidity throughout the mine. This company, at all times has been willing and ready to carry out any recommendations made by the inspector.

BENJ. LEWIS, *Gen. Mgr. & Supt.*

CHRIS. KERSHAW, *Mine Foreman.*

DAN DEEMAN, *Fire Boss.*

HOUSTON COAL & COKE CO.

ELKHORN, W. VA.

General Offices of Company, Elkhorn, W. Va.

No. 1126. *Houston Mine No. 2.*—This mine is located on the main line of the Norfolk & Western Railway, 16 miles east of Welch, at Elkhorn, and is operating the No. 3 Pocahontas seam, with an average thickness of from 6 to 8 feet. Ventilation of this mine has, at all times, been found in good condition. No gas has been detected at any time during my inspections of the past year. The main entry during this year has been driven through the mountain to the Northfork Branch, which has simplified the ventilation very much, and also made it very convenient for the Company to supply the miners with the necessary posts and caps.

Considerable pillar work has been done in this mine, and I consider they have been very fortunate in not having serious accidents, as the draw slate above this coal is very bad in the pillar section. All stoppings on the main entry are built of masonry. All cross entry stops are built of wood. This mine has been found in first class condition during the year, with the exceptions of some miners not using the clay for tamping.

BENJ. LEWIS, *Gen. Mgr. & Supt.*

GEO. GUY, *Mine Foreman.*

DAN DEEMAN, *Fire Boss.*

CROZER COAL & COKE CO.

ELKHORN, W. VA.

General Offices of Company, Elkhorn, W. Va.

No. 1127. *Mine No. 1.*—This mine is located on the main line of the Norfolk & Western Railway at Elkhorn, and 20 miles east of Welch, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 20 foot fan, which is giving first class results, as several openings are on the opposite side of the mountain, which are used for intakes, the fan being an exhaust fan. Stoppings on the main entry and overcasts are built of masonry. All coal is cut pick, using electricity for haulage purposes. The mine foreman at this mine and superintendent have taken great interest in getting this mine in its present condition. All recommendations given by the inspector in charge have been cheerfully carried out. All supplies, as required by law, are on hand and well taken care of.

EDWARD EVANS, *Supt.*

JOE MCCRICKARD, *Mine Foreman.*

J. J. LINCOLN, *Gen. Mgr.*

M. YATES, *Asst Mine Foreman.*

CROZER COAL & COKE CO.

ELKHORN, W. VA.

General Offices of Company, Upland, Penna.

No. 1127. *Crozer Mine No. 2.*—This mine is located on the main line of the Norfolk & Western Railway, 16 miles east of Welch, at Elkhorn, W. Va., and is working the No. 3 seam of Pocahontas coal, which averages 8 feet in thickness. During the past year a new fan has been installed at the extreme end of their lease, which has improved the ventilation very satisfactorily. During the past year, electric machines have been installed on the main entry section. The roof in this mine in general is good. All stoppings on the main entry are built of masonry; also several automatic trap doors have been installed, which has proved of great service in keeping the air in its proper course and properly distributed. During my last inspections of this mine, the mine officials have taken great care in keeping this mine in first class condition.

EDWARD EVANS, *Supt.*E. SMITH, *Mine Foreman.*J. J. LINCOLN, *Gen. Mgr.*D. SHACKLEFORD, *Asst. Mine Fore'n.*

• TURKEY GAP COAL & COKE CO.

ENNIS, W. VA.

General Offices of Company, Ennis, W. Va.

No. 1128. *Turkey Gap Mine.*—This mine is located on the main line of the Norfolk & Western Railway, at Ennis, and is working the No. 3 Pocahontas seam. Ventilation is produced by an 18 foot fan, which has been giving ample ventilation during the past year's inspection. This mine is absolutely all pillar work. The roof being very bad in sections, timbering throughout this mine is looked after very closely by the mine officials. Stoppings on the main entry are built of masonry; stoppings on all cross entries are built of wood. During the year this mine has been kept in a damp condition, except right at the faces where the men are working. The dust in these sections is a very difficult proposition, owing to the crushed condition of the coal. All coal in this mine is produced by pick, using mules and steam locomotives for haulage purposes. All supplies, as required by law, are properly posted and kept in good condition.

ED. MCQUAIL, *Gen. Mgr. & Supt.*J. P. JOHNSON, *Mine Foreman.*J. W. BROWN, *Fire Boss.*

SAFETY THE FIRST CONSIDERATION.

UNITED STATES COAL & COKE CO.

SYNOPSIS OF INSTRUCTIONS ISSUED IN CIRCULAR LETTERS FOR MINE FOREMEN
AND ASSISTANTS.

NOTE.

These instruction are intended to supplement the mine law, and the posted rules of the company. Should anything in them conflict with the mine law or the rules, the law and the rules must govern and be followed explicitly.

In all work consider:—

First—Safety.

Second—Quality.

Third—Cost.

Approved Sept. 25, 1911.

E. O'TOOLE, *General Superintendent.*

*SAFETY THE FIRST CONSIDERATION.*UNITED STATES COAL & COKE CO.
STANDARDS FOR VENTILATION AND INSPECTION.

1. The last breakthrough of every pair of leadings whether working or not, must have at least 12,000 cu. ft. of air per minute passing through it.
2. On room headings, the air current must be properly checked with canvas curtains, to cause it to circulate to faces of rooms. Curtains must not be more than seven (7) rooms apart.
3. Ass't. foremen must examine each working place in their districts, and mark each place visited with date of month, before allowing men to enter them. Each idle place must also be examined each day, and a record of the examination must be made daily in the book provided for that purpose.
4. Before entering the mine, ass't. foreman must ascertain the condition of the ventilating apparatus from the fan man or the substation man.
5. When the fan has been stopped for one hour, or more, for any reason, all places must be thoroughly examined by ass't. foremen before allowing men to enter them, and a record of the examination must be made in the record book.
6. All permanent brattices must be built of incombustible material—concrete preferred.
7. Temporary brattices must be made of boards, well put together and with joints stopped up with cement.
8. If it is necessary to carry a brattice from the last break-through to the face of any working place, use boards and not canvas.
9. Air measurements must be made weekly and be recorded in the book provided for that purpose.
10. For each shortage of air reported by monthly measurement of engineers, ten (10) demerits will be charged to the ass't. foreman in whose district it was found.
11. Ass't. foremen must carry Pieler testing lamps when making examinations, and all final tests for gas must be made with this lamp. When an ordinary safety lamp will not detect gas, try the Pieler lamp.
12. The presence of dust, as well as gas, must be noted in the record book.
13. Dust must not be allowed to accumulate in working places nor anywhere in the mine.
14. All dusty places on haulage roads must be sprinkled daily.

*SAFETY THE FIRST CONSIDERATION.*UNITED STATES COAL & COKE CO.
STANDARDS FOR EXPLOSIVES AND SHOOTING.

31. No charge, of any explosive, in any one hole, shall exceed two (2) pounds.
32. Machine cuttings must be loaded in car before coal is shot down.
33. Before firing a shot, ass't. foreman must see that the place is free from gas and dust, properly posted and safe in all respects.
34. No one but ass't. foremen or persons designated by mine foreman are allowed to have possession of brattices or to fire any shot.

35. Before firing a shot, ass't. foreman must see that all workmen have withdrawn to a place of safety, and he must not be in the line of the shot himself.

36. Ass't. foremen must not fire any shot that is improperly drilled, drilled on the solid, or improperly tamped.

37. Ass't. foreman must not fire any shot within three hours after detecting gas in any place in his district.

38. Where more than one shot is to be fired in any place, one shot only shall be charged, tamped and fired, and an examination of the place must be made before firing the second or following shots. Only one shot shall be fired at a time. Ass't. foremen must carefully examine working places, after shooting, before allowing work to begin.

39. No explosives excepting flameless explosives, approved by the U. S. Bureau of Mines, shall be used.

40. All holes must be tamped with clay the full depth of the hole.

41. No shot that has missed fire shall be drilled out. Drill a new hole in such a manner that it will not come in contact with the explosive in original hole. Second hole must be charged lightly.

42. If shots miss fire, or are not fired for any reason, ass't. foremen must report the fact to the mine foreman, who must record the fact and the reason for it in his record book.

43. If necessary, water dust at working face before shooting.

44. Augers are to be made to gauge, which must not exceed one and three-fourths ($1\frac{3}{4}$) inches in diameter.

45. Use wooden sticks for tamping holes.

46. Shots must be fired by battery and not from machine or trolley wire.

47. Ass't. foremen must see that all caps or exploders are kept separate from explosives and at least thirty (30) ft. from them. Caps must be kept in a hole dug in solid coal.

SAFETY THE FIRST CONSIDERATION.

UNITED STATES COAL & COKE CO.

STANDARDS FOR TRACKWORK, LINE SIGHTS, ETC.

61. Line sights are to be carried five and one-half ($5\frac{1}{2}$) feet from the rib in rooms and air courses, and in the centers of headings.

62. Sights in all places working must be extended each day.

63. Sight lines must be marked on roof by continuous chalk lines in all places.

64. All haulage roads on which more than one car is hauled per trip shall be at least five (5) feet high above the rail, and there shall be at least two and one-half ($2\frac{1}{2}$) feet clearance between any part of a car and the side of the heading at all places.

65. Permanent track must be kept within one hundred fifty (150) feet of face.

66. Track must be laid to line.

67. Where grades are given, track must be laid to grade.

68. All rash, slate, etc., is to be kept cleaned off haulage roads.

69. Ties are not to be over eighteen (18) inches centers on haulage roads.

70. Loaders must lay the track in their working places.

71. See that steel ties are used for room tracks and that all straight track is laid to exact gauge—forty-eight (48) inches.

72. Permanent track must be bonded as it is laid.

SAFETY THE FIRST CONSIDERATION.

UNITED STATES COAL & COKE CO.

STANDARDS FOR TIMBERING, SLATE WORK, ETC.

81. Where any dangerous slate is found, ass't. foreman must take it down at once, before work is done near it, or anyone, or any trip, allowed to pass under it.

82. Loaders must post their working places. Proper arrangement and spacing of caps, posts, etc., is shown on standard plan attached, which must be strictly followed. Posts must be set in straight lines and be vertical. Cap pieces must be wedged tightly against roof, with wedge between post and cap.

83. Ass't. foremen must not O. K. nor allow any place to be cut where posts are more than six (6) feet from the face at the bottom.

84. All slate and loose rash must be taken down in haulage roads. Places must not be cut until slate or rash is taken down to face.

85. No permanent timbering will be allowed on haulage roads unless under special instructions from General Superintendent.

86. Slate or loose rash in manways is to be taken down, same as in haulage ways.

87. Airways are to be timbered in same manner as rooms.

88. Loaders must clean up slate falls in their working places, and must be paid extra for this.

89. Mining machines should start to cut on track side of place.

SAFETY THE FIRST CONSIDERATION.

UNITED STATES COAL & COKE CO.

STANDARDS FOR ELECTRIC WORK.

101. The general arrangement of hangers, etc., for trolley wire is shown on accompanying plans, which must be strictly followed.

102. Trolley wire must be hung six (6) inches outside of rail and must be as nearly parallel to it, both horizontally and vertically, as it can be.

103. Where roof is high, trolley hangers can be spaced thirty-three (33) feet apart on straight track. Where clearance between roof and wire is low, hangers can be spaced twenty-five (25) feet to twenty (20) feet apart on straight track; the wire must always be so hung that it cannot be forced against the roof by the trolley wheel passing under it. On curves, hangers are to be spaced as shown on standard plan, depending upon the radius of curve. Hangers must be close enough to prevent being bent sidewise by strain of wire. Trolley wire must be pulled tight and be dead ended with an insulated turnbuckle to an anchor bolt in roof or to a heavy post.

104. Where trolley wires or feed lines cross a heading or at turn out for side tracks, each must be protected by hanging boards, so that neither man nor mule can come in contact with wire.

105. Section line switches and sectional insulators must be installed on all trolley wire branches. Section line switches must be installed on machine and pump lines. Cable for wiring switches and insulators must be of same capacity

as circuit controlled by switch. Ends of cables must be soldered solid and filed to fit terminal, or be soldered solid into feeder ear or terminal of switches and sectional insulators. Cables must be kept clear of switch boxes and porcelain tubes be used to bush holes, or holes have one-half ($\frac{1}{2}$) inch clearance all around cables.

106. Trolley frogs must be used at all turn outs and each frog must have an electric lamp beside it. Frogs must be located and supported by extra hangers, as shown on standard plan.

107. A clear space of at least two (2) inches must be allowed above trolley wire where it passes through a door, and hangers must be placed close to each side of door to prevent wire being forced up against wood.

108. Joints on trolley wire must be made with sleeves.

109. Feeder cables must be supported at intervals of twenty (20) feet on barn hangers and special "Gem" insulators. Cables are to be placed twelve (12) inches outside of trolley lines and must be connected to them at intervals of two hundred (200) feet by feeder cars and solderless cable taps. Cables must be properly dead ended with cable and insulated turnbuckles.

110. Machine wire must be supported on insulators, which must not be more than thirty-three (33) feet apart, and close enough to prevent wires touching posts, rib or roof. Ground wires must be put up in same manner as live wires. Where roof is good and not less than six and one-half ($6\frac{1}{2}$) feet above top of rail, wires should be put on roof at side of heading, and be eighteen (18) inches apart, the live wire being placed as close to rib as possible; where necessary to place wires on ribs and posts they must be twenty-four (24) inches apart. All wires must be dead ended on porcelain insulators. Porcelain tubes must be used around wires passing through doors or curtains, and insulators must be placed close to each end of tubes. Joints must be well twisted together, with six (6) turns on each side. No hook joints will be allowed. Machine wires must be placed on same side of track as trolley wire. All wires must be pulled tight and be well tied to approved insulators. Machine wire should not be used in rooms less than four hundred (400) feet long. Where rooms are longer than this, room wires must not be connected to heading wires, excepting when machine is in operation in room. Each machine must carry one pair of jumpers to reach from heading to room wires. Insulators must be put on pins, and no wedging of insulators between wires or between wire and roof or coal or wood will be permitted. One wire only must be on one insulator.

111. All tracks on headings where electric haulage is used must be bonded when laid. Holes for bonds must be clean and bright and bond terminals be forced firmly against the metal. Splice bars must be left off joints until bonding is inspected by mine foreman or superintendent. All switches on haulage roads must be bonded as shown on standard plan attached, and all track should be cross bonded at intervals not exceeding five hundred (500) feet.

112. All light wiring must be thoroughly insulated from roof, rib or timbers, and must be tied to porcelain insulators with non-conducting material. Wire from lamp to ground must be on insulators, and wire from rib to rail be buried. No nails or staples will be allowed for fastening wire.

113. All insulated cables and wires must be kept free from grounds, same as bare wires.

114. Pipe lines must not be used solely for pump motor returns, but when running close to and parallel with a bonded rail, may be connected to rail at intervals not exceeding five hundred (500) feet.

115. Where lights are to be installed in mines, or damp, wet or dusty buildings, where waterproof sockets must be used and where lamp is not to be carried about, wires to socket must be soldered direct to the circuit wires, but supported independently of them. Porcelain cleats or split knobs can be used to support droplight. See plan.

116. Where lights are to be installed that are used for portable purposes, or where lights come in contact with surrounding objects, Portable cord—*not lamp cord*—must be used, wires to be soldered direct to circuit wires and be supported independently of them with porcelain cleats. See plan.

117. Lamp cord will not be approved in wet or dusty places. Cord must hang free from resets. No looping of long cords and no suspending from hooks or nails in ceilings will be permitted.

SAFETY THE FIRST CONSIDERATION.

UNITED STATES COAL & COKE CO.

GENERAL RULES.

121. Mines will begin work at 7 A. M. and stop dumping at 3:45 P. M.

122. All men must be checked in and out of the mine each day.

123. No one but employees allowed to enter the mines unless accompanied by the mine foreman or some other official.

124. No person under eighteen (18) years of age shall be employed without first furnishing affidavit of age from his parents or guardian.

125. All work, excepting such repairs as cannot be done while operating or at night, must be suspended on Sundays.

126. Do not allow grease, oily waste or any other inflammable material to accumulate in pump house, offices or anywhere else.

127. Do not allow wood, old boards, ties, posts or any inflammable material to accumulate in the mines.

128. Mining machine men must be in working places or at mine office at 4 P. M. to receive instructions from ass't. foremen.

129. Unless otherwise instructed, one man only will be allowed per working place.

130. No machinery of any kind must be allowed to operate unless all gears and dangerous portions are fully guarded.

SAFETY THE FIRST CONSIDERATION.

UNITED STATES COAL & COKE CO.

MR. EDWARD O'TOOLE, *General Superintendent*.

I hereby acknowledge the receipt of one copy of "Synopsis of Instructions Issued in Circular Letters," which I have carefully read.

Superintendent.
Mine Foreman.
Ass't. Foreman.
Electrician.

Note.—No premium will be paid any mine foreman or assistant unless this receipt is on file in the Main Office.

UNITED STATES COAL & COKE CO.

GARY, W. VA.

General Offices of Company, Gary, W. Va.

No. 1129. *Mine No. 1.*—This shaft mine is located on Tug Fork branch of the N. & W. Railway at Wilcoe. This shaft has not been working for the past two years, with the exception of producing coal in order to keep the pumps going, and to stop the mine filling up with water. A rock tunnel is driven to connect No. 1 shaft with No. 3 mine, which is a distance of several thousand feet. No. 3 seam liberates considerable gas but ventilation is conducted in its proper course at all times, so as not to allow any accumulation of fire damp. This shaft is inspected by the company inspector as regularly as any of the mines.

Gen. EDW. O'TOOLE, *Gen. Supt.*C. M. GATES, *Supt.*C. M. GATES, *Company Mine Inspector.*WM. KEARNS, *Company Mine Inspector.*

UNITED STATES COAL & COKE CO.

GARY, W. VA.

General Offices of Company, Gary, W. Va.

No. 1130. *Mine No. 2.*—This is a drift mine located at Gary, and working the No. 4 Pocahontas seam. A conveyor is used in the slope opening to convey coal to the tippie. Coal is dumped at the foot of the slope in the mine but this is on the return air way. All dust immediately returns to the outside. Ventilation is produced by a 20 foot fan, which gives abundance of ventilation to all sections of the mine. This mine is developed on the 4 and 5 entry system. All coal is cut with electric machines using no pick men in the mine. This mine is divided into 6 different currents of air. All overcasts and stepings in this mine are built of concrete and masonry. Permissible powder is used absolutely with electric detonators, using shot fire. Systematic timbering is used throughout the mine. During my inspections of the mine the past year, the mine has been found in good condition, and every safeguard available is thrown around the employees. The mining laws are complied with in every respect.

Gen. EDW. O'TOOLE, *Gen. Supt.*E. M. ESSER, *Supt.*W. JONES, *Supt.*C. M. GATES, *Company Inspector.*WM. KEARNS, *Company Inspector.*S. O. JONES, *Mine Foreman.*M. CHARNEY, *Asst. Mine Foreman.*

W. H. WITWORTH.

B. JOHNSON.

JOHN KURTOK, *Asst. Mine Foreman.*J. T. STORKS, *Asst. Mine Foreman.*S. D. DRIVER, *Asst. Mine Foreman.*J. E. MORRELL, *Asst. Mine Foreman.*J. D. HYATT, *Asst. Mine Foreman.*

UNITED STATES COAL & COKE CO.

GARY, W. VA.

General Offices of Company, Gary, W. Va.

No. 1131. *Mine No. 3.*—This is a drift mine located at Gary, and is working the No. 4 Pocahontas seam. Ventilation is produced by a 20 foot fan

which is giving ample ventilation throughout the mine. This mine is developed on the 4 entry system, using masonry for all stoppings and overcasts. Break-throughs are driven at the required distance and all doors are found in first class condition. Permissible powder and shot firers are used, and using the electric detonator. Clay is furnished all miners. Props are put at suitable places. Systematic timbering is carried on throughout the mine. Drainage in this mine is generally good. All coal is cut by machines, using mules and electric motors for hauling. During my inspection of this mine this year, it has been found in first class condition at all times.

Gen. EDW. O'TOOLE, *Gen. Supt.*

W. A. WILSON, *Supt.*

C. M. GATES, *Company Inspector.*

WM. KEARNS, *Company Inspector.*

JOHN MULLEN, *Mine Foreman.*

J. W. GATES, *Mine Foreman.*

CHAS. REEDY, *Asst. Mine Foreman.*

R. Y. HARRISON, *Asst. Foreman.*

PONEY POYE, *Asst. Foreman.*

TONEY ALBERT, *Asst. Foreman.*

WM. JONES, *Asst. Foreman.*

JOE CUTY, *Asst. Foreman.*

H. I. QUEEN, *Asst. Foreman.*

ANDY SEGO, *Asst. Foreman.*

E. KULING, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

THROP, W. VA.

General Offices of Company, Gary, W. Va.

No. 1132. *Mine No. 4.*—This is a drift mine and is located on a branch line of the N. & W. Railway on Tug Fork, three miles from Gary, and is working the No. 3 Pocahontas seam. Ventilation throughout this mine has been found in first class condition on every inspection. All coal is cut by electric machines. Permissible powder is used throughout the mine for the shooting, of all coal and rock, with electric detonators. During my inspections of the mine the past year this mine has been found in first class condition.

Gen. EDW. O'TOOLE, *Gen. Supt.*

A. M. HARRIS, *Supt.*

C. M. GATES, *Company Inspector.*

WM. KEARNS, *Company Inspector.*

A. G. HAHN, *Mine Foreman.*

S. L. BOLEN, *Asst. Foreman.*

MIKE SMITH, *Asst. Foreman.*

FRANK CARPENTER, *Asst. Foreman.*

IGNOTS BASH, *Asst. Foreman.*

WALTER JONES, *Asst. Foreman.*

F. B. SEXTON, *Asst. Foreman.*

STEVE SCOTCH, *Asst. Foreman.*

T. J. SIZEMORE, *Asst. Foreman.*

JOS. CHROMEK, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

THROP, W. VA.

General Offices of Company, Gary, W. Va.

No. 1133. *Mine No. 5.*—This is a drift mine and located on the branch line of the N. & W. Railway on Tug Fork, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 13 foot Clifford Capel fan, which is giving ample ventilation throughout the mine. This mine is driven on the 4

entry system. All overcasts and stoppings are built of concrete. Doors at all times have been found in first class condition. Permissible powder is used throughout the mines for shooting of all coal and rock, using electric detonators. Shot firers are employed. Systematic timbering is being done in all rooms. Dust has been properly watered down during my inspection of this mine the past year. This mine has been found in good condition, the law being complied with in every respect.

Gen. EDW. O'TOOLE, *Gen. Supt.*

A. W. HARRIS, *Supt.*

C. M. GATES, *Company Inspector.*

WM. KEARNS, *Company Inspector.*

C. M. CAMERON, *Mine Foreman.*

F. L. SIZEMORE, *Asst. Foreman.*

ANDY SABADOS, *Asst. Foreman.*

W. W. MILLER, *Asst. Foreman.*

L. SPANGLER, *Asst. Foreman.*

JOE COSON, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

GARY, W. VA.

General Offices of Company, Gary, W. Va.

No. 1134. *Mine No. 6.*—This is a drift mine and is working the No. 4 Pocahontas seam. Ventilation is produced by a 20 foot fan, which is giving abundance of ventilation throughout the mine. The ruling of this company in all mines is, that the last break-through on each entry must not have less than 12,500 feet of air traveling per minute. If the company inspector should at any time, or the mining engineer, while making their measurements, and checking up the mine foreman should find that this amount of air is not passing the last break-through, the mine foreman is given demerits, which affects him considerably on his premium. This mine is developed on the 4 and 8 entry system. The main entry using four intakes and 4 returns. All stoppings on the main entry are built of masonry, also all overcasts. Check doors are used in all cross entries to ventilate the rooms. The haulage roads are kept clear of all refuse, and have a 3½ feet clearance on the side of all cars. Coal is cut by electric machines, using no pick men in the mine. Systematic timbering is done in all sections. Every safeguard available is thrown around the employees of this company. During my inspection of this year at this mine, it has been found in first class condition in every respect.

Gen. EDW. O'TOOLE, *Gen. Supt.*

NEIL FRIEL, *Supt.*

C. M. GATES, *Company Inspector.*

WM. KEARNS, *Company Inspector.*

SAM GRAHAM, *Mine Foreman.*

JNO. KRISHO, *Asst. Foreman.*

MIKE DANISH, *Asst. Foreman.*

ANDY HERETTA, *Asst. Foreman.*

NICK SHARKEY, *Asst. Foreman.*

H. C. YONCE, *Asst. Foreman.*

JOE TOCASH, *Asst. Foreman.*

E. DYE, *Asst. Foreman.*

JOHN POP, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

ELBERT, W. VA.

General Offices of Company, Gary, W. Va.

No. 1135. *Mine No. 7.*—This mine is located on the branch line of the N. & W. Railway on Sand Lick, two miles from Gary, and is working the No. 4

Pocahontas seam. This mine has been developed on the 6 entry system, using 3 intakes and 3 returns. Ventilation is produced by a 13 foot Clifford Capel fan, which is giving ample ventilation and is well conducted to the working faces. All entries are kept free from all obstructions with 3½ feet on the side of all cars for clearance. Every safety appliance available is thrown around the employees. During my inspection of the past year, this mine has been found in first class condition, complying with the mining laws in every respect.

Gen. EDW. O'TOOLE, *Gen. Supt.*

P. A. KEARNS, *Supt.*

C. M. GATES, *Company Inspector.*

WM. KEARNS, *Company Inspector.*

JAMES BOOTH, *Mine Foreman.*

SYDNEY CROUCH, *Asst. Foreman.*

W. H. SHORT, *Asst. Foreman.*

NICK GRASSE, *Asst. Foreman.*

PAUL FREDELLA, *Asst. Foreman.*

L. WHALEN, *Asst. Foreman.*

RUDOLPH TRIFFINWICH, *Asst. Foreman.*

IGNOTZ GRURICH, *Asst. Foreman.*

E. N. JONES, *Asst. Foreman.*

F. K. PAYNE, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

ELBERT, W. VA.

General Offices of Company, Gary, W. Va.

No. 1136. *Mine No. 8, A & C Sections.*—These are drift mines located on the N. & W. Railway on Sand Lick, and are working the No. 4 Pocahontas seam. During the year Section C was shut down for nine months, owing to the depression in business. The roof is very bad in all rooms. Coal is cut by machines, using no pick men in the mine. Systematic timbering is done in this mine. All shots are fired by shot firers, using permissible powder with electric detonators. This mine is driven on the four entry system using two intakes and 2 returns. All stoppings on the main entry are built of masonry. Coal is gathered by mules and electric motors. All stoppings on the main entry are built of masonry. Coal is gathered by mules and electric motors. All electric wires in this mine are in first class condition. During my inspection of the year this mine has at all times been found in good condition, complying with the mining laws in every respect.

Gen. EDW. O'TOOLE, *Gen. Supt.*

C. M. GATES, *Company Inspector.*

WM. KEARNS, *Company Inspector.*

M. HOFSTETTER, *Mine Foreman.*

G. E. WILLIAMS, *Asst. Foreman.*

MIKE DUTSEY, *Asst. Foreman.*

CHAS. BOOTS, *Asst. Foreman.*

C. E. AKERS, *Asst. Foreman.*

HARRY HANSON, *Asst. Foreman.*

VETO SECONOVITCH, *Asst. Foreman.*

JOHN MECHESKY, *Asst. Foreman.*

CARL GENEZOWSKI, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

FILBERT, W. VA.

General Offices of Company, Gary, W. Va.

No. 1137. *Mine No. 9, East and West Siac.*—These are drift mines and are working the No. 4 Pocahontas seams. Ventilation is produced by a 16 foot Clifford Capel fan in each mine, but using the ore tippie. These mines are driven on the 6 entry system, using three intakes and 3 returns. All stoppings on the main entry are built of masonry; also overcasts. Systematic timbering is done throughout these mines. Miners are well supplied with props and cap pieces. All shots are fired by shot firers, who act as mine foreman assistants. The ruling of this company is that no assistant shall have more than 18 men under his charge, and this ruling is carried out to the letter in all their mines, and this ruling has been the means of reducing both fatal and non-fatal accidents to a minimum. During my inspections of this year, this mine has been found in first class condition, complying with the mining laws in every respect.

Gen. EDWARD O'TOOLE, *Gen. Supt.*W. W. HARDING, *Supt.*C. M. GATES, *Company Inspector.*WM. KEARNS, *Company Inspector.*EAST T. MCPARLAND, *Mine Foreman.*D. R. GATES, *Mine Foreman.*E. F. LILLY, *Asst. Foreman.*JOE AUDRING, *Asst. Foreman.*JNO. KENNER, *Asst. Foreman.*ALBERT MARSHALL, *Asst. Foreman.*KEYLE WILSON, *Asst. Foreman.*JNO. HURLEY, *Asst. Foreman.*JNO. GEORGE, *Asst. Foreman.*J. T. BASHAM, *Asst. Foreman.*C. P. PRESSLEY, *Asst. Foreman.*A. J. REED, *Asst. Foreman.*A. M. CARNES, *Asst. Foreman.*JAS. BARRETT, *Asst. Foreman.*FRANK FAHEY, *Asst. Foreman.*ROBT. LONG, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

GARY, W. VA.

General Offices of Company, Gary, W. Va.

No. 1138. *Mine No. 10.*—This is a drift mine located on Tug Fork on the N. & W. Railway, and is working the No. 3 Pocahontas seam. Ventilation is produced by a 14 foot Clifford Capel fan. The main entry of this mine is driven on the 6 entry system, using 3 intakes and 3 returns. All draw slate is taken down in both air courses and entries, and removed to the out side. All stops on the main entry, also overcasts, are built of masonry. Check doors are used on all cross entries to ventilation rooms. Electric wires are in first class condition. Systematic timbering is done in all rooms. No timbers allowed on any entry. Any bad roof on main entries or cross entries must be taken down. In all sections of this mine there is a 31½ foot clearance on the

side of the cars. During my inspection of this year this mine has been found in first class condition in every respect.

Gen. EDWARD O'TOOLE, *Gen. Supt.*

J. M. TULLY, *Supt.*

C. M. GATES, *Co. Mine Inspector.*

WM. KEARNS, *Co. Mine Inspector.*

J. V. RHODES, *Mine Foreman.*

HARRY HORNS, *Asst. Foreman.*

JOE ANDRING, *Asst. Foreman.*

H. C. MANN, *Asst. Foreman.*

J. S. RHODES, *Asst. Foreman.*

TOM RYNE, *Asst. Foreman.*

FRANK HUEY, *Asst. Foreman.*

MIKE BOYER, *Asst. Foreman.*

MIKE ZURICK, *Asst. Foreman.*

MIKE CASSETT, *Asst. Foreman.*

L. V. MITCHELL, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

GARY, W. VA.

General Offices of Company, Gary, W. Va.

No. 1139. *Mine No. 11.*—This mine is located on the branch line of the N. & W. Railway on Tug Fork, and is working the No. 3 and No. 4 Pocahontas seams. Ventilation is produced by a 13 foot Clifford Capel fan, which gives 270,000 cubic feet per minute. During the year the No. 3 seam has been shut down for months, owing to the depression in business. Systematic timbering is done in this mine. All coal is cut by machines. Haulage is done by mules and electricity. During my inspections of these mines during the past year, they have been found in good condition at all times.

Gen. EDWARD O'TOOLE, *Gen. Mgr.*

I. H. DUNN, *Supt.*

C. M. GATES, *Co. Mine Inspector.*

WM. KEARNS, *Co. Mine Inspector.*

W. H. MORGAN, *Mine Foreman.*

J. M. LANGTON, *Mine Foreman.*

STEVE KISH, *Asst. Foreman.*

G. T. LEACH, *Asst. Foreman.*

J. MELSTRICK, *Asst. Foreman.*

ANDY MONER, *Asst. Foreman.*

GABRIEL MOROR, *Asst. Foreman.*

E. K. WOLF, *Asst. Foreman.*

J. A. COX, *Asst. Foreman.*

JOHN SUSZ, *Asst. Foreman.*

E. R. DURLS, *Asst. Foreman.*

G. C. HIGHTOWER, *Asst. Foreman.*

J. W. LESTER, *Asst. Foreman.*

C. B. HUNDLEY, *Asst. Foreman.*

UNITED STATES COAL & COKE CO.

ANAWALT, W. VA.

General Offices of Company, Gary, W. Va.

No. 1140. *No. 12.*—This mine is located on a branch line of the Norfolk & Western Railway, on Tug Fork, at Anawalt, and is working the No. 3 Pocahontas seam, which averages from 9 to 10 feet in thickness. Owing to the depression in business, this mine has been shut down considerably during the year. Ventilation is produced by a 16 foot fan, which is giving ample ventilation to all working faces, using check doors to ventilation all rooms. The

roof in this mine is generally good, with the exception of 4 inch of draw slate, which is taken down. Systematic timbering is done in this mine; in all rooms the roads are kept on the rib side. The first row of props near the road are set 3 feet apart, using not less than a 5 foot long cap piece, which extends cross ways of the track. This cap piece is not less in thickness than 6x4 in. The two gob rows of props are set 5 feet apart, using a 4 foot cap piece. All coal is undercut by electric chain machines. Shot firers are employed who act as cut bosses for each section of the mine. All shots are fired with electric detonators and using permissible powder. Whether the roof is good or bad, in any of these companies' mines, as soon as the first breaking shot is fired, and the coal loaded out, a prop is set before the shot firers will fire another shot for the miner and this system is followed up with each and every shot. This systematic timbering which is done by this company has been the means of saving many lives. During inspection of this mine, the past year, the mine has been found in first class condition.

H. T. GRAHAM, *Supt.*

J. L. MULLINS, *Mine Foreman.*

EDWARD O'TOOLE, *Gen. Supt.*

S. A. SCOTT, *Asst. Mine Foreman.*

CHAS. M. GATES, *Company Inspector.*

J. E. VERNON, *Asst. Mine Foreman.*

W. KEARNS, *Company Inspector.*

JAMES KNOX, *Asst. Mine Foreman.*

W. H. LINKENHOKER, *Asst. M. F.*

COLUMBIA COLLIERIES CO.

ANAWALT, W. VA.

General Offices of Company, Anawalt, W. Va.

This is a new mine and is located two miles from Anawalt on the N. & W. Ry. on Northfork of Tug river and is working the No. 3 Pocahontas seam. Ventilation is produced by furnace, which is giving ample ventilation at present. Coal is produced by pick. Haulage is done by mules. All break-throughs are driven at the required distance. All stoppings built of satisfactory material. Timbering in rooms is not satisfactory. Clay is used in general for the tamping of all holes. Stretchers, safety lamp and other supplies required by law, on hand.

H. T. GRAHAM, *Supt.*

J. A. COLLUP, *Mine Foreman.*

W. H. WETSEL, *Supt.*

M. M. MONFY, *Mine Foreman.*

TWELFTH DISTRICT.

GENERAL SUMMARY FOR THE TWELFTH MINING DISTRICT FOR THE YEAR ENDING JUNE 30TH, 1912.

COUNTY.	No. of Openings.	No. of Persons Killed.	EMPLOYEES								Production of		
			Inside.					Outside.			Coal.	Coke.	
			Pick Miners.	Machine Miners.	Machine Runners and Helpers.	Laborers.	Totals.	Laborers.	Coke Workers.	Totals.	Sum Totals.	Tons of 2,240 lbs.	Tons of 2,200 lbs.
Mingo.....	29	11	228	862	253	838	2,181	480	.....	480	2,661	2,374,563	.....
Wayne.....	1	.....	.....	33	5	13	51	17	.....	17	68	48,130	.....
McDowell..... (Part)	36	46	1,356	528	233	688	2,805	471	45	516	3,321	2,613,594	38,287
Totals.....	66	57	1,584	1,423	491	1,539	5,037	968	45	1,013	6,050	5,036,287	38,287

DEPARTMENT OF MINES, STATE OF WEST VIRGINIA.

Williamson, June 29, 1912.

HON. JOHN LAING,

Chief of Department of Mines.

Charleston, W. Va.

DEAR SIR:—In compliance with Sec. 3 of the Mine Law, I herewith respectfully submit to you my annual report as inspector of the mines in the Twelfth District for the year ending June 30, 1912.

During the year I made 258 regular inspections in the counties of McDowell, Mingo, Wayne and Logan and 13 special visits to mines were made to investigate fatal accidents and look after dangerous conditions.

Many improvements have been made in the district during the year in the way of opening up new mines, constructing new tipples and washers, installing fans, improving the method of conducting the ventilation, and last, but the most important, the installation in mines, which are dry and dusty, humidifying apparatuses with which the dust in the mines can be kept in a moist condition.

The ruling recently issued by the Mine Department requiring all mines to be kept in such a moist condition the year round so that a relative humidity, of not less than 90 per cent, be obtained is a most important one. If mines are kept in such condition, the explosion of a small body of gas or powder will not initiate a general explosion throughout a mine.

As to the large number of individual accidents which are occurring, more

rigid discipline must be maintained to do away with them. More frequent inspections of working places should be made by officials in charge, and when dangerous conditions are encountered, an official should not merely content himself with telling the workmen to remedy it, but, he should see that it is done immediately.

As I am resigning my position as a District Mine Inspector, to accept a position with a coal company, a few words regarding a mine department, with which I have been connected for five years, will I hope be considered in the proper light, now. It has been my privilege to study mining conditions and methods in several states of the Union, and it is with no hesitancy that I say that the West Virginia Mine Department is on a par with that of any other states, and as such, they should be given the recognition which is due them from the Legislature of the State. It is in a great measure due to the Mine Department that West Virginia was developed as safe and as good as can be found anywhere. What is more this has been done with the number of mines and coal produced, increasing. In view of these facts, the number of district mine inspectors should be at least increased to fifteen with their salaries fixed to at least \$3000 and the Chief of the Department of Mines getting at least \$5000 per year.

Some recognition should also be given to years of service. A mine inspector serving a number of years and applying himself to the study of different conditions as they exist in various mines becomes a much better inspector than any new man that can be put on, and some means should be adopted to increase the salary accordingly. If this is not done they will be tendered as the they improve in knowledge or they will seek position with coal companies who will pay them larger salaries.

The tenure of office of mine inspectors should in no way depend, upon a certain political party remaining in power, and a law should be enacted to assure a mine inspector that he can remain in office as long as he performs his duties in a faithful and efficient manner. It is to the credit of the present department and to which a large measure of the success of it can be attributed that the political faith of the inspectors was not taken into consideration in their appointment.

In conclusion permit me to thank you for the able advice and assistance received from you, and to the miners and operators for the courteous treatment received from them.

Respectfully submitted,

P. A. GRADY,

Mine Inspector, Twelfth District.

POCAHONTAS SMOKELESS COAL COMPANY.

P. O. of Mine, WELCH, W. VA.

General Office of Company, Thurmond, W. Va.

No. 1201. *Pocahontas Smokeless Mine.*—This mine is located near Welch on the main line of the N. & W. R. R. It is a drift opening operating the Welch seam of coal which has an average thickness in this mine, of 44 inches, with a fairly good roof. Drainage is good. On the last inspection some of the doors and stoppings were found in a poor condition. Ventilation was good except on some left entries. The mine has always been found naturally damp

throughout and no explosive gas is generated. The coal is undercut with picks and hauled by mules and a gasoline haulage motor. The mine law in all other respects has been found complied with.

O. C. HUFFMAN, *General Manager*.

J. H. TAYLOR, *Mine Foreman*.

HEMPHILL COLLIERY CO.

P. O. of Mine, WELCH, W. VA.

General Office of Company, Welch, W. Va.

No. 1202. *Hemphill Mine*.—This mine is located near Welch on the main line of the N. & W. R. R. It is a drift opening operating the Welch seam of coal which has an average thickness of 38 inches with a generally good roof. Doors and stoppings are in satisfactory condition. Ventilation produced by a 16 foot fan is good, it having numerous openings near the head workings for the air to enter. The mine is wet and no explosive gas is generated. Drainage in some sections of the mine has been found poor. The coal is undercut with hand picks and compressed air punching machines and hauled by mules and a gasoline motor. The mine law in other respects has been found complied with. The coal from this mine is nearly all taken as fuel coal for locomotives on N. & W. R. R.

F. J. BAXTER, *Gen. Supt.*

WM. SPICER, *Mine Foreman*.

WELCH COAL & COKE COMPANY.

P. O. of Mine, WELCH, W. VA.

General Office of Company, Welch, W. Va.

No. 1203. *Welch Mine*.—This mine is located near Welch on the main line of the N. & W. R. R. It is a drift opening operating the Welch seam of coal which has an average thickness of 4 feet with a bad roof. Drainage is good. Doors and stoppings were found in good condition. On account of the extensive development of the mine, the ventilation furnished was not sufficient at the inside workings at the time of the last inspection. A new opening being made at the head of the mine to be used as an intake, will remedy this condition and give better ventilation to the mine. The mine has always been found naturally wet and no explosive gas is generated. The coal is undercut with hand picks and compressed air punching machines, gathered by mules and hauled from the main parting in the mines to the tippie by a steam locomotive. In other respects the mine law has been found complied with.

F. J. BAXTER, *Gen. Supt.*

GEORGE T. CASTLE, *Mine Foreman*.

OREGON COAL CO.

P. O. HEMPHILL, W. VA.

General Office of Company, Hemphill, W. Va.

No. 1204. *Oregon Nos. 1, 2 & 3 Mines*.—These mines are located about one mile below Welch on the main line of the N. & W. R. R. They are drift openings operating the Welch seam of coal which has an average thickness in these mines of 42 inches, with a good roof except in some sections of the No. 2 mine. Drainage has been found poor in different sections. Doors and stoppings were found in a satisfactory condition. Ventilation produced by the Crawford & McCrimmon fans is good. The No. 1 mine has been idle the greater part of the year. No explosive gas is generated and the mines

have always been found in a wet condition. The coal is undercut with hand picks and compressed air punching machines. It is hauled by mules to the head of the incline and from the foot of the incline to the tippie by a steam locomotive. The coal from the three mines all comes to the one tippie. The No. 2 and 3 mines are producing 650 tons of coal per day. The mine law in all other respects is being complied with.

C. W. PETERS, *Supt.*

THOS. BRAZIEL, *Supt. & Mine Fore'm.*

G. W. DIXON, *Mine Foreman.*

STANDARD POCAHONTAS COAL COMPANY.

P. O. of Mine, WELCH, W. VA.

General Office of Company, Cleveland, Ohio.

No. 1205. *Standard Mine*.—This mine is located two miles below Welch on the main line of the N. & W. R. R. It is a shaft opening 360 feet deep, operating the No. 3 Pocahontas seam of coal, which has an average thickness in this mine of 5 feet, with a bad draw slate roof. Drainage is good. The permanent system of ventilation has not yet been established in this mine and there are a number of doors in use between the main intake and return. It has been recommended that overcasts be constructed so that there will not be any short circulating of the air from the head workings of the mine. Sufficient ventilation can be furnished by a 14 foot Jeffrey fan installed. Explosive gas is generated in all sections of the mine and the use of locked safety lamps is employed exclusively. The mine so far, on account of the workings being near the shaft has been in a damp condition, but there is every reason to believe that when the workings extend further from the shaft, they will become naturally dry and dusty, and, in order, to insure that they be kept wet, this department has recommended that water pipes be conducted throughout the mine, or a humidifying apparatus be installed, so that the mine can be kept in a wet condition, at all times. To keep this mine in a generally safe condition, the most careful attention must be given to the explosive gas generated, and the coal dust which is expected will have to be contended with. The coal is undercut with an electric chain machine and hauled by mules and electric motors.

J. N. VEST, *Supt.*

JAMES RAISBECK, *Foreman & Fire Boss.*

PANDO COAL COMPANY.

P. O. PANDO, W. VA.

General Office of Company, Welch, W. Va.

No. 1206. *Pando No. 2 Mine*.—This mine is located at Pando on the main line of the N. & W. R. R. It is a drift opening operating the Davey seam of coal, which has an average thickness of 44 inches, with a good roof. Drainage is good. Doors are in good condition. Stoppings are not found satisfactory and only fair ventilation is produced by a 3 foot fan. The mine is naturally wet throughout and no explosive gas is generated. The coal is mined by electric chain machines and hauled by mules and electric motors. The mine law in other respects is being complied with.

C. L. BIDDISON, *Supt. & Mine Foreman.*

SUPERIOR POCAHONTAS COAL CO.

P. O. OF MINE, DAVY, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1207. *Blackstone or No. 1 Mine.*—This mine is located at Davy on the main line of the N. & W. R. R. It is a drift opening operating the Sewell seam of coal which has an average thickness in this mine of 42 inches with a good roof. The doors and stoppings are good for the life of the mine as nearly all the work being done is in extracting pillar coal. Drainage is good. Ample ventilation is furnished by two Disc fans. No explosive gas is liberated and the mine is wet the year round. The coal is undercut with hand picks and hauled by mules and electric motors. The mine law in other respects is being complied with. This mine is producing 450 tons of coal per day.

GEO. WOLF, *Gen. Supt.*J. D. KIRBY, *Mine Foreman.*F. M. COOK, *Supt.**SUPERIOR POCAHONTAS COAL CO.*

P. O. OF MINE, DAVY, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1208. *Davy Crockett or No. 2 Mine.*—This mine is located at Davy on the main line of the N. & W. R. R. It is a drift opening operating the Sewell seam of coal which has an average thickness in this mine of 34 inches with a roof that requires careful timbering in the rooms to hold it. Doors and stoppings are in good condition. Good ventilation is furnished by a 7 foot Disc fan. Drainage is good. The coal is undercut with hand picks and hauled by mules and electric motors. No explosive gas is generated and the mine is generally damp. The mine law in other respects is being complied with. This mine is producing 400 tons of coal per day.

GEO. WOLF, *Gen. Supt.*MILTON KLINE, *Mine Foreman.*F. M. COOK, *Supt.**SUPERIOR POCAHONTAS COAL CO.*

P. O. OF MINE, DAVY, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1209. *Helena or No. 3 Mine.*—This mine is located at Davy on the main line of the N. & W. R. R. It is a drift opening operated the Sewell seam of coal which has an average thickness of 32 inches in this mine with a good roof. Doors and stoppings are in good condition. Ventilation produced by a six foot Disc fan is good. Drainage is good. No explosive gas is liberated and the mine excepting a few sections is naturally damp. The coal is undercut with hand picks and hauled by mules and electric motors. The mine law in other respects is being complied with. This mine is producing 350 tons of coal per day.

GEO. WOLF, *Gen. Supt.*H. L. HUBBARD, *Mine Foreman.*F. M. COOK, *Supt.**SUPERIOR POCAHONTAS COAL CO.*

P. O. OF MINE, DAVY, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1210. *Cletus or No. 4 Mine.*—This mine is located at Davy on the main line of the N. & W. R. R. It is a drift opening operating the Sewell seam of

coal which has an average thickness in this mine of 34 inches with a good roof. Doors and stoppings are satisfactory with the exception of a few plank stoppings on main entry. Ventilation produced by a 6 foot Disc fan is good. Drainage is good. No explosive gas is liberated and with the exception of a few small sections, the mine is naturally moist. The coal is undercut with electric chain machine and hauled with mules and electric motors. The mine law in other respects is being complied with. The mine is producing 200 tons of coal per day.

GEO. WOLF, *Gen. Supt.*

G. T. ALTIZER, *Mine Foreman.*

F. M. COOK, *Supt.*

J. B. B. COAL COMPANY.

P. O. OF MINE, TWIN BRANCH, W. VA.

General Office of Company, Boston, Mass.

No. 1211. *No. 1 Mine.*—This mine is located at Twin Branch on the main line of the N. & W. R. R. It is a drift opening in the Davy seam of coal, which has an average thickness in this mine of 42 inches, with a roof that is bad in some sections. Drainage in some places is poor. Stoppings are good. To conduct the ventilation, a large number of doors were in use in this mine, some of which were always being opened during the working hours, which made the ventilation in some sections of the mine, not satisfactory. During the last few months, the management has had installed 12 automatic doors which has considerably improved the ventilation, which is produced by a 12 foot Disc fan. The mine is naturally wet and no explosive gas is generated. The coal is undercut by hand picks and compressed air punching machines and hauled by mules and electric motors.

J. F. PALMER, *General Supt.*

R. G. STEWART, *Mine Foreman.*

J. B. B. COAL COMPANY.

P. O. OF MINE, TWIN BRANCH, W. VA.

General Office of Company, Boston, Mass.

No. 1212. *No. 2 Mine.*—This mine is located at Twin Branch, on the main line of the N. & W. R. R. It is a drift opening operating the Davy seam of coal, which has an average thickness of 3 feet with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by 8 foot fan is good, if there are not so many men employed in one air split. Recommendations were made that the number in one split be reduced, and the inspector has been informed that this has been done. The mine is damp throughout and no explosive gas is generated. The coal is undercut with hand picks and compressed air punching machines, and hauled by mules and electric motors. The mine law in other respects is being complied with.

F. H. PALMER, *General Supt.*

T. P. MELVIN, *Mine Foreman.*

J. B. B. COAL COMPANY.

P. O. OF MINE, TWIN BRANCH, W. VA.

General Office of Company, Boston, Mass.

No. 1213. *No. 3 Mine.*—This mine is located at Hensley, on the main line of the N. & W. R. R. It is a drift opening operating the Davy seam of coal, which has an average thickness of 3 feet, with a good roof. Doors and stop-

pings are in good condition. Drainage is good. Ventilation produced by an 8 foot Disc fan is good, except when one of the innumerable doors in use are left open. This condition is being remedied now, by installing automatic doors. No explosive gas is generated and the mine is naturally damp. The coal is mined by hand picks and hauled by mules and electric motors. In other respects the mine law is being complied with.

F. H. PALMER, *Gen. Supt.*

GEORGE CAREY, *Mine Foreman.*

J. B. B. COAL COMPANY.

P. O. OF MINE, TWIN BRANCH, W. VA.

General Office of Company, Boston, Mass.

No. 1214. *No. 4 Mine.*—This mine is located at Twin Branch on the main line of the N. & W. R. R. It is a drift opening, operating the Davy seam of coal, with an average thickness of 42 inches, and a roof that is bad in some sections. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by 2 fans is good except in one section of the mine. The mine is generally damp and no explosive gas is generated. Mining is done by hand picks, compressed air punching machines and electric chain machines and hauled by mules and electric motors. In other respects the mine law is being complied with.

L. H. PALMER, *Gen. Supt.*

P. A. GRANT, *Mine Foreman.*

SOLVAY COLLIERIES CO.

P. O. OF MINE, MARYTOWN, W. VA.

General Office of Company, Syracuse, N. Y.

No. 1215. *Marytown Mine.*—This mine is located at Marytown on the main line of the N. & W. R. R. It is a drift opening operating the Sewell seam of coal which has an average thickness in this mine of forty-five inches with a good roof. The stoppings on all main entries are constructed of stone laid in cement mortar and the doors are in good condition, six of the main doors in use are of the automatic type. The ventilation produced by an 8 foot Disc fan has met the needs of the mine. Preparations are now being made to install a high efficiency fan which will be able to furnish ventilation for the the future requirements of the mine. No explosive gas is generated and the mine has always been found in a moist condition. Frequent hygrometric readings taken by the officials of the mine and the inspector show that the relative humidity of the mine during the year round does not fall below 90 per cent. The coal is undercut with picks and hauled by mules and electric motors. The mine law in all respects has been found complied with. This mine is producing 1250 tons of coal per day, the largest tonnage of any mine on the N. & W. R. R., with this height of coal.

J. C. RAWN, *Gen. Mgr.*

A. D. SHORTZ, *Mine Foreman.*

W. A. LILLY, *Supt.*

E. D. WALTERS, *Mine Foreman.*

SOLVAY COLLIERIES CO.

P. O. OF MINE, BIG SANDY, W. VA.

General Office of Company, Syracuse, N. Y.

No. 1216. *Big Sandy Mine.*—This mine is located on the main line of the N. & W. R. R. at Big Sandy. It is a drift opening operating the Sewell seam

of coal which has an average thickness in this mine of 44 inches with a roof that is good but requires timbering for the local slips that run in it. Overcasts and stoppings are constructed of masonry and doors are in good condition, many of the doors in use are of the automatic type. Ventilation produced by two Disc fans, 8 and 10 feet in diameter, is good and well distributed throughout the mine. No explosive gas is generated and the mine has always been found in a naturally moist condition. This opportunity is taken to comment on the watchfulness of the management who has had weekly hygrometric readings taken during the cold season and a copy of such readings furnished each week to the inspector. Those readings never showed a relative humidity of less than 90 per cent in the workings of the mine. Drainage is good. The coal is undercut with hand picks and electric machines and hauled by mules and electric motors. With the height of coal seam being mined, this mine is producing next to the largest tonnage of any mine on the N. & W. R. R. The production being 750 tons daily. The mine law in all other respects is being complied with.

J. C. RAWN, *Gen. Mgr.*

E. D. WALTERS, *Mine Foreman.*

A. B. SHORTZ, *Mine Foreman.*

VAUGHN COAL & COKE CO.

P. O. OF MINE, RODERFIELD, W. VA.

No. 1217. *Vaughn Mine.*—This mine is located near Roderfield on the main line of the N. & W. R. R. It is a drift opening operating the Sewell seam of coal which has an average thickness of about 4 feet, with a roof which gives very little trouble if timbers are set. During the year stone stoppings have been constructed throughout the mine and doors are in good condition. A 7 foot Disc fan furnishes sufficient ventilation for the needs of the mine. No explosive gas is generated and the mine has always been found naturally damp. Drainage is good. The coal is undercut with hand picks, hauled to a parting near the drift mouth by mules and from there around a tram way and through a tunnel in the old mine to the tippie which is two miles away, by a steam locomotive and a gasoline motor. The mine law in other respects is being complied with.

D. M. WOODY, *Supt. & Mine Fore'n.*

G. G. BENT, *Supt.*

H. H. HALL, *Mine Foreman.*

FLANAGAN COAL CO.

P. O. OF MINE, RODERFIELD, W. VA.

General Office of Company, Welch, W. Va.

No. 1218. *Flanagan No. 1 Mine.*—This mine is located on the Spice Creek Branch of the N. & W. R. R., one mile from Roderfield. It is a drift opening in what appears to be the War Creek seam of coal which has an average thickness in this mine 66 inches with a good sand stone roof. Doors and stoppings are in good condition. Ventilation produced by a 5 foot Disc fan is good for the present needs of the mine. The coal is undercut with picks and hauled by mules. The mine does not liberate explosive gas and has always been found naturally wet. The mine law in other respects is being complied with. This mine is producing 300 tons of coal per day.

JAS. FLANAGAN, *Gen. Mgr.*

MORRIS FINLEY, *Mine Foreman.*

J. F. BUTLER, *Supt.*

FLANAGAN COAL CO.

P. O. OF MINE, RODERFIELD, W. VA.

General Office of Company, Welch, W. Va.

No. 1218. *No. 3 Mine*.—This is mine located on Spice Creek, near Roderfield, is a drift opening operating the Davy seam of coal, which has an average thickness of 4 feet. It is a new mine which has just commenced shipping coal.

JAMES FLANAGAN, *Pres. & Gen. Mgr.*J. F. BUTLER, *Supt.***DAVY-POCAHONTAS COAL COMPANY.**

P. O. OF MINE, RODERFIELD, W. VA.

General Office of Company, Baltimore, Md.

No. 1219. *No. 1 Mine*.—This mine is located on Spice Creek, near Roderfield, is a drift opening operating the War Creek seam of coal, which has an average thickness of 5 feet. Drainage is good. Doors and stoppings are in good condition. Fairly good ventilation is produced by a furnace. A 6 foot Jeffrey fan is now being installed. The mine has been found naturally damp and no explosive gas is generated. The coal is cut with hand picks and hauled by mules.

T. L. BOOTH, *General Supt.*C. M. PRICE, *Mine Foreman.***DAVY-POCAHONTAS COAL COMPANY.**

P. O. OF MINE, RODERFIELD, W. VA.

General Office of Company, Baltimore, Md.

No. 1219. *No. 2 Mine*.—This mine is located on Spice Creek, near Roderfield, is a drift opening in the Davy seam of coal, which has an average thickness of 42 inches, with a good roof. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by a 6 foot fan is good. It is a new mine and the coal so far has been mined with hand picks and hauled by mules. An electric plant has been installed and it is the intention to cut and haul the coal by electric power. No explosive gas is generated and the mine is naturally damp. The mine law in other respects is being complied with.

T. L. BOOTH, *General Supt.*C. M. PRICE, *Mine Foreman.***PREMIER POCAHONTAS COLLIERIES CO.**

P. O. OF MINE, PREMIER, W. VA.

General Office of Company, Lynchburg, Va.

No. 1220. *No. 1 Mine*.—This is a drift mine, located on the Spice Creek Branch of the N. & W. R. R., operating the Welch seam of coal which has an average thickness in this mine of forty inches. The roof is good all over the mine. Drainage is good. All stoppings in the mine are constructed of stone and the doors are substantially built. The ventilation produced by a 7 foot Disc fan is good. The mine is free from explosive gas and is naturally wet the whole year around. The entries and traveling ways are kept in a clean condition. The coal is all undercut by pick mining and all hauling is done by electric motors. The mine is producing 350 tons of coal per day.

F. F. HARMAN, *Pres. & Gen. Mgr.*T. N. DAUGHERTY, *Mine Foreman.*J. C. SAUNDERS, *Supt.*

PREMIER POCAHONTAS COLLIERIES CO.

P. O. OF MINE, PREMIER, W. VA.

General Office of Company, Lynchburg, Va.

No. 1220. *No. 2 Mine*.—This mine is located at Premier, on the Spice Creek Branch of the N. & W. R. R., operating the Welch seam of coal which has an average thickness of four feet in this mine. The roof requires timbering in all working places. The stoppings in the mine are constructed of plank and the doors are in good condition. Ventilation furnished by a 7 foot Disc fan is good. No gas is liberated in the mine and it is naturally wet the whole year round. Pick mining is carried on entirely and the coal is all hauled by electric motors. The entries and traveling ways are in good condition. Drainage is good. The mine law in all other requirements is being complied with. This mine is producing 325 tons of coal per day.

F. P. HARMAN, *Pres. & Gen. Mgr.*H. H. FISHER, *Mine Foreman.*J. C. SAUNDERS, *Supt.**PREMIER POCAHONTAS COLLIERIES CO.*

P. O. OF MINE, PREMIER, W. VA.

General Office of Company, Lynchburg, Va.

No. 1220. *Mine No. 3*.—This mine is located on the Spice Creek Branch of the N. & W. R. R., at Premier, operating the Welch seam of coal which has an average thickness in this mine of 54 inches. The roof in some sections of the mine is bad and requires careful timbering. Drainage is good. Stoppings in the mine are constructed of stone and plank and doors are in good condition. No explosive gas is generated and the mine is naturally wet the year around. Pick mining is carried on exclusively and the hauling is all done by electric motors. Entries and traveling ways are in good condition. The mine law in all other requirements is being complied with. This mine is producing 700 tons of coal per day.

F. P. HARMAN, *Pres. & Gen. Mgr.*J. M. RING, *Mine Foreman.*J. C. SAUNDERS, *Supt.**PREMIER POCAHONTAS COLLIERIES CO.*

P. O. OF MINE, PREMIER, W. VA.

General Office of Company, Lynchburg, Va.

No. 1220. *Mine No. 4*.—This is a new mine which will when operating develop the Welch seam of coal at Premier.

F. P. HARMAN, *Pres. & Gen. Mgr.*J. C. SAUNDERS, *Supt.**VIRGINIA POCAHONTAS COAL CO.*

P. O. OF MINE, COALWOOD, W. VA.

General Office of Company, Johnson City, Tenn.

No. 1221. *Mines No. 1 East & West & No. 9*.—These mines are drift openings located at Coalwood on the Clear Fork Branch of the N. & W. R. R., the No. 1 mines are developing the Welch seam which has a thickness of five feet and the No. 9 mine is developing the Sewell seam whose thickness is 40 inches. The coal from all three mines is hauled to the one tippie. Roof is good. Doors and stoppings are in good condition. Good ventilation is furnished by two

fans, 8 and 6 feet in diameter and by a furnace. The coal is undercut by pick mining and hauled by mules and electric motors. No explosive gas is generated and the mines have been found naturally wet the year around. Drainage is good. The mine law in other requirements is being complied with.

W. B. CRAWFORD, *Gen. Supt. 1st half year.* M. L. SIMPKINS, *Mine Foreman.*
G. R. MARRS, *Gen. Supt. 2nd. half year.*

C. W. CONNOR, *Mine Supt.*

VIRGINIA POCAHONTAS COAL CO.

P. O. OF MINE, COALWOOD, W. VA.

General Office of Company, Johnson City, Tenn.

No. 1222. *No. 3 East & West Mines.*—These mines are located at Coalwood on the Clear Fork Branch of the N. & W. R. R. are drift openings in the the Welch seam of coal which has an average thickness in these mines of 54 inches. Roof is good excepting in some places where slips come in which require careful watering and timbering. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by two Disc fans, 7 feet in diameter is good. No gas is liberated and the mine has always been found damp except in local sections. The coal is all undercut with hand picks and hauled with electric motors. The mine law in other requirements is being complied with.

W. B. CRAWFORD, *Gen. Supt. 1st. half year.* J. L. VANCE, *Mine Foreman.*

G. R. MARRS, *Gen. Supt. 2nd. half year.*

C. W. CONNOR, *Mine Supt.*

VIRGINIA POCAHONTAS COAL CO.

P. O. OF MINE, COALWOOD, W. VA.

General Office of Company, Johnson City, Tenn.

No. 1223. *No. 1½, 3, 4, 7 and 8 Mines.*—These are drift mines located at Coalwood on the Clear Fork Branch of the N. & W. R. R. The 1½, 3 and 4 mines are operating the Welch seam of coal which has an average thickness of five feet. The Nos. 7 and 8 mines are operating the Sewell seam which averages 40 inches in thickness with a good roof. In the other mines the roof is bad in some sections and requires careful timbering. The ventilation which is furnished to these mines by two fans and five furnaces is good. Doors and stoppings are in good condition. Drainage is good. No explosive gas is generated and with the exception of some sections in No. 3 mine they have always been found in a naturally damp condition. The coal is mined with picks and electric chain machines and hauled by electric motors. The coal from all five mines comes to one tippie. The mine law in all other requirements is being complied with.

W. B. CRAWFORD, *Gen. Supt. 1st half year* WM. PACK, *Mine Foreman.*

G. R. MARRS, *Gen Supt. 2nd half year.* K. C. BRENT, *Mine Foreman.*

C. W. CONNOR, *Mine Supt.*

VIRGINIA POCAHONTAS COAL CO.

P. O. OF MINE, COALWOOD, W. VA.

General Office of Company, Johnson City, Tenn.

No. 1224. *Mines No. 6 East and West and Thelma Mine.*—These mines are located two miles above Coalwood on the Clear Fork Branch of the N. & W.

R. R., operating the Sewell Seam of coal which has an average thickness in these mines of four feet. The roof requires timbering to keep it from falling. All stoppings are constructed of plank and the doors are in good condition. The ventilation for the No. 6 East mine is produced by two Disc fans, 8 and 6 feet in diameter. The No. 6 West mine is provided with good ventilation by an 8 foot Disc fan. The Thelma mines which have only been opened up this year will be ventilated with 4 Disc fans as there is to be four separate openings. The Thelma mines and the No. 6 East are inclined to become dusty during the cold season and recommendations have been made that steam, water sprays or other humidifying apparatus be used to keep the dust wet. The No. 6 West mine has always been found naturally wet. They are all drift openings high up on the hill and no explosive gas is liberated. The coal is all hauled to the one tippie but a new tippie is to be constructed for the Thelma mines. Drainage has always been found good except in local places in the No. 6 West mines. The coal is all undercut with electric chain machines and hauled by electric motors. The mine law is complied with in all other requirements.

W. B. CRAWFORD, *Gen. Supt. 1st half year.* T. C. LONGMIER, *Mine Foreman.*

G. R. MARRS, *Gen. Supt. 2nd half year.*

C. W. CONNOR, *Mine Supt.*

VIRGINIA POCAHONTAS COAL CO.

P. O. OF MINE, YUKON, W. VA.

General Office of Company, Johnson City, Tenn.

No. 1225. *Caretta or No. 5 Mine.*—This mine is located near Yukon, on the Dry Fork Branch of the N. & W. R. R. It is a slope opening in the War Creek seam of coal, which has an average thickness of 4 feet, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a 7 foot Disc fan, split into two separate currents is good. The mine in certain sections is dusty, and in compliance with a recommendation the management intends to install a force fan and humidifying apparatus, which will keep the mine in such a damp condition that a relative humidity of not less than 90 per cent can be obtained the whole year around. No explosive gas has been detected. The coal is mostly mined by electric chain machines and hauled entirely by electric motors. Mine laws in other respects is being complied with.

W. L. ROBINSON, *General Supt.*

WILLIAM WHITE, *Mine Foreman.*

COLUMBUS POCAHONTAS COAL COMPANY.

P. O. OF MINE, IAEGER, W. VA.

General Office of Company, Columbus, Ohio.

No. 1226. *Columbus Pocahontas Mine.*—This mine located on the Dry Fork branch of the N. & W. R. R., three miles from Iaeger, is a drift opening in what is locally known as the Red Ash seam of coal, which has an average thickness of 30 inches. Doors and stoppings were found in good condition. Drainage is good. Ventilation produced by a furnace is fairly good. The mine is naturally damp and no explosive gas is generated. At the time of my last inspection of this mine no blankets or safety lamps were on hand and no rules posted.

J. A. BRADFUTE, *General Supt.*

F. C. CAUDILL, *Mine Foreman.*

IMPERIAL POCAHONTAS COAL COMPANY.

P. O. OF MINE, IAEGER, W. VA.

General Office of Company, Welch, W. Va.

No. 1227. This mine is located on Dry Fork, about eight miles from Iaeger, operating the Davey seam of coal, which has an average thickness in this mine of 30 inches, and only a small amount of work has been done in prospecting during the year.

JAMES FLANAGAN, *Pres. & Gen. Mgr.**REYNOLDS MINING COMPANY.*

P. O. OF MINE, LEX, W. VA.

General Office of Company, Welch, W. Va.

No. 1228. *Reynolds Mine*.—This mine is located at Lex, on the Dry Fork branch of the N. & W. R. R., it is a drift opening in the Welch seam of coal, which has an average thickness of 34 inches, with a roof that requires careful timbering. Doors and stoppings were not in satisfactory condition. Drainage is good. Ventilation produced by a furnace was not found satisfactory. The mine is naturally damp and a very small amount of explosive gas is generated. The coal is mined by hand picks and hauled by mules. The mine law in other respects is complied with.

O. C. HUFFMAN, *General Mgr.*C. W. CHATFIELD, *Mine Foreman.**HURRICANE BRANCH COAL COMPANY.*

P. O. OF MINE, LEX, W. VA.

General Office of Company, Welch, W. Va.

No. 1229. *Hurricane Branch Mine*.—This mine located at Lex, on the Dry Fork branch, of the N. & W. R. R., is a drift opening operating the Welch seam of coal, which has an average thickness of 3 feet, with a bad roof. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by a furnace is good for the number of men employed. The mine is damp and no explosive gas is generated.

J. FRANK JOHNSON, *Gen. Mgr.*J. E. HUFFARD, *Supt. & Mine Foreman.**HENRIETTA POCAHONTAS COAL CO.*

P. O. OF MINE, BARTLEY, W. VA.

General Office of Company, Bartley, W. Va.

No. 1230. *Henrietta Mine*.—This mine is located at Bartley on the Dry Fork branch of the N. & W. R. R., 19 miles from Iaeger. It is a drift opening operating the Sewell seam of coal which has an average thickness in this mine of three feet with a good roof. Doors and stoppings are in good condition. Sufficient ventilation for the development of the mine is furnished by a 4 foot Disc fan. Some difficulty is experienced in keeping the mine well drained. No explosive gas is generated and the mine is naturally wet. The coal is mined by hand picks and hauled by mules and a 4 ton gasoline motor. The mine law in other respects is being complied with. This mine is producing 150 tons of coal per day.

C. BOTSFORD, *Gen. Mgr. & Supt.*J. W. STRICKLER, *Mine Foreman.*

FLAT TOP COAL MINING CO.

P. O. OF MINE, ENGLISH, W. VA.

General Office of Company, Crystal, W. Va.

No. 1231. *Thomas Mine*.—This mine is located at English on the Dry Fork branch of the N. & W. R. R. It is a slope opening operating the War Creek seam of coal which has an average thickness in this mine of 45 inches with a roof which is poor in some sections. Drainage in some sections of the mine is also poor. Doors and stoppings were found in satisfactory condition. Good ventilation is furnished by an 8 foot Sirocco fan. A very small amount of explosive gas is generated and most of the mine so far has been found in a naturally damp condition. The coal is undercut with hand picks and hauled by mules and electric motors. The mine law in other respects is being complied with. This mine is producing 250 tons of coal per day.

W. H. THOMAS, *Gen. Mgr.*ED. COCKBURN, *Supt. & Mine Foreman.**DRY FORK COLLIERY COMPANY.*

P. O. OF MINE, YUKON, W. VA.

General Office of Company, Bluefield, W. Va.

No. 1232. *Dry Fork Mine*.—This mine located at Yukon, on the Dry Fork Branch, of the N. & W. R. R., is a slope opening in the War Creek seam of coal, which has an average thickness of 6 feet, with a good roof. Drainage is good. Doors and stoppings are in a good condition. Ventilation produced by a 6 foot Sirocco fan is good. The coal is mined by hand picks under the supervision of shot inspectors and hauled by mules and a gasoline haulage motor. The mine is naturally damp and a very small amount of explosive gas has been detected at different times. The mine law in other respects is being complied with.

W. T. WILLIAMS, *Pres. & Gen. Mgr.*W. H. POWELL, *Mine Foreman.*W. L. ROBINSON, *Supt.**BUCHANON COAL COMPANY.*

P. O. OF MINE, YUKON, W. VA.

General Office of Company, Yukon, W. Va.

No. 1233. *Buchanon Mine*.—This mine located at Yukon, on the Dry Fork Branch, of the N. & W. R. R., is a drift opening operating the War Creek seam of coal, which has an average thickness of 38 inches, with a good roof. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by a 7 foot fan is good. The mine is naturally damp and a very small amount of explosive gas is generated. The coal is mined by hand picks and hauled by mules.

J. L. CHARLES, *Gen. Supt.*M. J. HARLEY, *Mine Foreman & Fire Boss.**YUKON POCAHONTAS COAL COMPANY.*

P. O. OF MINE, YUKON, W. VA.

General Office of Company, Yukon, W. Va.

No. 1234. *Yukon No. 1 Mine*.—This mine is located at Yukon, on the Dry Fork Branch, of the N. & W. R. R., is a drift opening in the War Creek seam of coal, which has an average thickness of 5 feet, with a good roof. Drainage is good. Doors are good. Stoppings and main entry were not found satis-

factory. Sufficient ventilation is produced by a 10 foot Disc fan. Some section of the mine were found dusty. No explosive gas is generated. The coal is mined by electric chain machines and hauled by electric motors. In other respects the mine law is complied with.

H. M. MEYERS, *Gen. Supt.*

H. S. WEDDINGTON, *Mine Foreman.*

HARMAN COAL COMPANY.

P. O. OF MINE, WAR, W. VA.

General Office of Company, Yukon, W. Va.

No. 1235. *No. 1 Mine.*—This mine is located near War, on Dry Fork Branch of the N. & W. Railroad. It is a drift opening operating the Welch seam, which has an average thickness of 3 feet, with good roof. Drainage, doors and stoppings are in good condition. Sufficient ventilation, is produced by a furnace for the few men working in this mine. Dust is found in some sections, but no explosive gases are generated. Coal is undercut by hand and hauled by mules. Mine laws in all other respects are complied with.

W. T. BROOKS, *Supt.*

C. M. BLERMS, *Mine Foreman.*

WAR CREEK COAL COMPANY.

P. O. OF MINE, WAR, W. VA.

General Office of Company, Yukon, W. Va.

No. 1236. *War Ridge Mine.*—This mine is located at War, on the Dry Fork Branch of the N. & W. R. R., is a drift opening operating the Welch seam of coal, which has an average thickness of 3 feet, with a good roof. Drainage is good. Doors and stoppings are in good condition. Sufficient ventilation is produced for the few men working, by a furnace. The mine was found dusty in some sections and no explosive gas is generated. The coal is undercut with hand picks and hauled by mules. Mine law in other respects is complied with.

H. M. MEYERS, *General Supt.*

CHARLES HUFF, *Mine Foreman.*

JOHN'S BRANCH COAL COMPANY.

P. O. OF MINE, WAR, W. VA.

General Office of Company, Yukon, W. Va.

No. 1237. *John's Branch Mine.*—This mine is located at War, on the Dry Fork Branch, of the N. & W. R. R., is a drift opening operating the War Creek seam of coal, which has an average thickness of 4 feet, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a furnace is good. No explosive gas is generated. Some sections of the mine were found in a dusty condition. Coal is mined by hand picks and hauled by mules. In other respects the mine laws are complied with.

H. M. MEYERS, *General Supt.*

CHARLES HUFF, *Mine Foreman.*

POCAHONTAS DOMESTIC COAL COMPANY.

P. O. OF MINE, WAR, W. VA.

General Office of Company, War, W. Va.

No. 1238. *Scorpion Mine.*—This mine located near War, on the Dry Fork Branch, of the N. & W. R. R. It is a drift opening in the War Creek seam

of coal, which has an average thickness of 4 feet, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a furnace is good. No explosive gas is generated. Certain sections of the mine were found in a dusty condition, and shooting on the solid was practiced. Recommendations were made that all shooting should be done by shot firers when all other employees were out of the mine. The coal is hauled by mules. Mine laws in other respects are being complied with.

J. D. NASH, *General Supt.*

JOSEPH SMITH, *Mine Foreman.*

EXCELSIOR POCAHONTAS COAL CO.

P. O. OF MINE, WAR, W. VA.

No. 1239. *Excelsior Mine.*—This mine is located at War on the Dry Fork Branch of the N. & W. R. R. It is a drift opening operating the War Creek seam of coal which has an average thickness in this mine of 56 inches with a roof which is good, except in some sections of the right side of mine. Doors and stoppings are in very good condition. Ventilation produced by a 5 foot fan is good. Drainage is good. No explosive gas is generated and the mine has always been found in a damp condition. The coal is all undercut with Sullivan short wall machines and gathered and hauled by electric motors. The mine law in all other respects is being complied with. This mine is producing 500 tons of coal per day.

J. A. HUDDLESTON, *Gen. Mgr.*

M. J. HURLEY, *Mine Foreman.*

T. G. SHELTON, *Mine Foreman.*

NEW RIVER & POCAHONTAS CONSOLIDATED COAL CO.

P. O. OF MINE, BERWIND, W. VA.

General Office of Company, Arcade Bldg., Philadelphia, Pa.

No. 1240. *No. 1 Mine.*—This is a drift opening, located at Berwind on the Dry Fork Branch of the N. & W. R. R., operating the No. 3 Pocahontas seam which has an average thickness in this mine of 54 inches with a good sandstone roof. Masonry stoppings and overcasts are constructed and the doors are in good condition. 100,000 cubic feet of air per minute is produced by a 16 foot fan and this amount split into four separate currents furnishes good ventilation to the mine. No explosive gas is generated and the mine in certain sections becomes dry in winter. The fan which is exhausting has an intake opening near the head of the mine at the working faces. This cold air in winter time has a tendency to render the working places near this intake dry and dusty. The fan is reversible and it has recommended that the direction of the air be reversed before the coming cold season sets in and that a steam boiler which is near at hand be put in readiness to be used. All fine coal cuttings and refuse, which would make dust in a mine is loaded out and sent through a large washery which has been constructed for taking care of the fine coal. All the coal excepting the pillar coal is undercut with electric chain machines and hauled by electric motors. The mine law in other respects is being complied with. This mine is producing 650 tons of coal per day. The mine law in other respects is being complied with.

H. M. BERTOLET, *Gen. Mgr.*

J. J. REYNOLDS, *Mine Foreman.*

WM. BARRICK, *Supt.*

NEW RIVER & POCAHONTAS CONSOLIDATED COAL CO.

P. O. OF MINE, BERWIND, W. VA.

General Office of Company, Arcade Bldg., Philadelphia, Pa.

No. 1241. *No. 2 Mine*.—This is a drift opening, located at Berwind on the Dry Fork Branch of the N. & W. R. R., operating the No. 3 Pocahontas seam of coal which has an average thickness in this mine of four feet with a good sandstone roof. Drainage is good. Stoppings and overcasts are constructed of masonry and doors are in good condition. Ventilation produced by a 8 foot fan, split into five separate currents, furnishes good air for the mine. Explosive gas is generated in small amounts and the mine in general is naturally dry. All fine coal and refuse is loaded out of the mine and sent to the washery to be cleaned. The fan during the year was changed from exhausting to forcing the air and a 75 H. P. boiler was installed near the fan on the outside and pipes were run to the different main splits of the mine for the purpose of injecting steam in to keep the dust wet. By operating this system sufficiently during the cold months will no doubt keep the mine in such a moist condition that a relative humidity of 90 per cent can be obtained at all times. All of the coal excepting some of the pillar coal is undercut with electric chain machines and hauled with electric motors. This mine is producing 500 tons of coal per day. The mine law in other respects is being complied with.

H. M. BERTOLET, *Gen. Mgr.*PETER DRENNAN, *Mine Foreman.*WM. BARRICK, *Supt.*W. P. FARNE, *Fire Boss.**NEW RIVER & POCAHONTAS CONSOLIDATED COAL CO.*

P. O. OF MINE, BERWIND, W. VA.

General Office of Company, Arcade Bldg., Philadelphia, Pa.

No. 1242. *No. 3 Mine*.—This is a drift opening, located two miles above Berwind on the Dry Fork Branch of the N. & W. R. R., operating the No. 3 Pocahontas seam of coal which has an average thickness of four feet with a good sandstone roof. Drainage is good. Doors and stoppings are in good condition, the stoppings along with overcasts being constructed of masonry. Ventilation produced by an 8 foot fan and divided into three currents is good. During the year a 50 H. P. boiler was installed near the intake of this mine for the purpose of injecting into the mine. On account of the fan being an exhaust fan and not reversible, this steam must be put in on the main haulway and this can only be done at night or when the mine is idle, and it is questionable whether or not enough moisture can be put into the mine in this way without employing other means with it. No explosive gas is liberated and the mine in general is naturally dry. As in the other mines of this company, all the fine coal and refuse is loaded out to prevent the accumulation of dust. The mine law in all other respects is being complied with. This mine is producing 600 tons of coal per day, all of it being undercut and hauled by electric machinery.

H. M. BERTOLET, *Gen. Mgr.*JOS. SHORTHOUSE, *Mine Foreman.*WM. BARRICK, *Supt.*F. TAYLOR, *Mine Foreman.*

NEW RIVER & POCAHONTAS CONSOLIDATED COAL CO.

P. O. OF MINE, BERWIND, W. VA.

General Office of Company, Arcade Bldg., Philadelphia, Pa.

No. 1243. *No. 4 Mine*.—This mine is located two miles above Berwind on the Dry Fork Branch of the N. & W. R. R. It is a drift opening operating the No. 3 Pocahontas seam of coal which averages in thickness 53 inches. Roof in some sections was found bad, but, carefully timbered. Drainage is good. Ventilation produced by an 8 foot non-reversible fan is good. Masonry stoppings and overcasts are constructed and doors are in good condition. No explosive gas is liberated and so far the mine has always been found in a naturally moist condition. The coal is all undercut with electric chain machines and hauled by electric motors. All fine coal and refuse is loaded out of the mine and sent to the washery. The mine law in other respects is being complied with. This mine is producing 250 tons of coal per day.

H. M. BERTOLET, *Gen. Mgr.*JOS. BROWN, *Mine Foreman.*WM. BARRICK, *Supt.*N. LEWIS, *Mine Foreman.*

LATHROP COAL CO.

P. O. OF MINE, PANTHER, W. VA.

General Office of Company, Welch, W. Va.

No. 1244. *Lathrop Mine*.—This is a drift mine located at Panther on the main line of the N. & W. R. R., operating the Eagle seam of coal which averages six feet in thickness. The roof which is sandstone requires very little timber except where some hill seam come in. No gas is generated and so far the mine has been naturally wet. Ample ventilation is produced by an 8 foot Jeffrey fan, which is split into two separate currents. Stoppings are constructed of stone and doors are in good condition. Drainage in the mine is good. The coal is mined by electric short wall machines and hauled by electric motors. A separate hoist has been provided on the outside to haul the men and supplies up the hill. It has been recommended that the truck used in hoisting be provided with "drags" with which it can be held in case the rope breaks or the hoisting machinery gets out of order. This is a new mine that has not been shipping coal a year yet. The mine law in all other respects is being complied with.

WM. LECKIE, *Gen. Mgr.*J. R. DAVIS, *Mine Foreman.*A. F. LECKIE, *Supt.*

MOHAWK C. & C. CO.

P. O. OF MINE, MOHAWK, W. VA.

General Office of Company, Powhatan, W. Va.

No. 1245. *Mohawk Mine*.—This mine is located at Mohawk on the main line of the N. & W. R. R., is a drift opening operating the Eagle seam of coal which averages 70 inches in thickness. The roof is a sandstone, containing many hill seams and is very good, little timbering being necessary. The mine is free from gas and has been found naturally wet the whole year around. A 12 foot centrifugal fan furnishes 45000 cubic feet of air per minute which is more than ample for the needs of the mine. Drainage is good. All the coal mined is undercut with air puncher machines, hauled from the working places to the parting by mules and from the parting, which is 4000 feet inside the

mine, to the tippie by a steam locomotive. No traveling is done on the haul-way by the workmen as there are a number of openings at the head of the mine through which they can reach their work. Other requirements of the mine law are being complied with. This mine is producing 500 tons of coal per day.

L. E. TIERNEY, *Gen. Mgr.*

W. J. HOPKINS, *Mine Foreman.*

W. T. HEATHERMAN, *Supt. 1st half year.*

J. W. MONTGOMERY, *Supt. 2nd half year.*

MINGO COUNTY.

MARGARET MINING CO.

P. O. OF MINE, WAR EAGLE, W. VA.

General Office of Company, Welch, W. Va.

No. 1246. *Margaret Mine*.—This mine is located on the Turkey Creek Branch of the N. & W. R. R. near War Eagle. It is a drift opening operating the No. 1 Eagle seam of coal which has an average thickness in this mine of five feet with a sandstone roof which is generally good throughout the mine. Drainage is good. Doors and stoppings are in good condition and the ventilation produced by a 12 foot centrifugal fan is good. The coal is all underent with compressed air punching machines and hauled by mules to a side track near the drift mouth and from there to the tippie by a steam locomotive. No explosive gas or black damp is liberated and the mine excepting a few sections is naturally damp. Nearly all the workmen in the mine are using acetylene lamps and the absence of powder smoke which is made by the ordinary oil lamp is noticeable. The mine law in other respects is being complied with.

T. A. SCHEWEY, *Gen. Supt.*

J. H. BRUMFIELD, *Mine Foreman.*

WAR EAGLE COAL CO.

P. O. OF MINE, WAR EAGLE, W. VA.

General Office of Company, War Eagle, W. Va.

No. 1247. *Mephisto Mine*.—This mine is located on the Turkey Creek Branch of the N. & W. R. R., near War Eagle. It is a drift opening operating the No. 1 Eagle seam of coal which has an average thickness of six feet with a good sandstone roof. Drainage is good. Doors and stoppings are in good condition and the ventilation produced by a 5 foot Disc fan is good. The coal mined is all underent with compressed air puncher machines and hauled by mules and a steam locomotive. No explosive gas is generated and the mine is naturally wet the year around. The mine in other respects is being complied with.

A. H. MOORE, *Pres.*

S. S. BARNETT, *Mine Foreman.*

G. W. COFFEY, *Gen. Mgr.*

WAR EAGLE COAL CO.

P. O. OF MINE, WAR EAGLE, W. VA.

General Office of Company, War Eagle, W. Va.

No. 1248. *Pappoose Mine*.—This mine is located on the Turkey Creek Branch of the N. & W. R. R., near War Eagle. It is a drift opening operating the No. 1 Eagle seam of coal which has an average thickness of six feet with a sandstone roof which is generally good. Drainage is fairly good. Doors and stoppings are in good condition and the ventilation produced by a fan is

good. Roadways are in good condition to pass moving cars. No explosive gas is generated and the mine is wet the year around. The coal mined is all undercut with compressed air punching machines and hauled by mules to a parting and from there to the tippie by a steam locomotive. The mine law in other respects is being complied with.

A. H. MOORE, *Pres.*

J. K. COFFEY, *Mine Foreman.*

G. W. COFFEY, *Gen. Mgr.*

GLEN ALUM COAL CO.

P. O. OF MINE, GLEN ALUM, W. VA.

General Office of Company, Lynchburg, Va.

No. 1249. *No. 1 Mine.*—This mine is located at Glen Alum on the Alum Creek Branch of the N. & W. R. R. It is a drift opening operating the Thacker seam of coal which has an average thickness of five feet with a roof that is generally good. Drainage is good. Doors and stoppings are in good condition and the ventilation produced by a 12 foot centrifugal fan is good. No explosive gas is liberated and certain sections of the mine during the cold months becomes dry. The ruling in regard to maintaining a relative humidity of 90 per cent in the mine air during all seasons of the year has been recommended. All the coal excepting what is mined from the pillars is undercut with electric chain machines, and hauled by mules and electric motors. The mine law in all other respects is being complied with.

E. E. Lambert was Gen. Supt. of this company until April 1st, when Morris Watts was appointed Gen. Mgr. and J. W. Yost, Mine Supt.

ED. BUCHANAN, *Mine Foreman.*

GLEN ALUM COAL CO.

P. O. OF MINE, GLEN ALUM, W. VA.

General Office of Company, Lynchburg, Va.

No. 1249. *No. 2 Mine.*—This mine is located at Glen Alum on the Alum Creek Branch of the N. & W. R. R. It is a drift opening operating the Thacker seam of coal which has an average thickness in this mine of five feet with a sandstone roof which is good. Drainage is good. Doors and stoppings are in good condition, many of the doors being of the automatic type. Ventilation produced by a 12 foot Disc fan is good. The coal in the mine is undercut with electric machines, and gathered and hauled by electric motors. The shooting is all done at night and during the working hours of the day the absence of powder smoke is noticeable. No explosive gas is generated and only small sections of the mine are subject to dryness. The mine law in other respects is being complied with.

E. C. LAMBERT, *Gen. Supt. until Apr. 1st.*

F. P. McCLOSKEY, *Mine Foreman.*

MORRIS WATTS, *Gen. Mgr. since Apr. 1st.*

J. W. YOST, *Mine Supt. since Apr. 1st.*

GLEN ALUM COAL CO.

P. O. OF MINE, GLEN ALUM, W. VA.

General Office of Company, Lynchburg, Va.

No. 1249. *No. 3 Mine.*—This mine is located on the Alum Creek Branch of the N. & W. R. R. at Glen Alum. It is a drift opening operating the Thacker

seam of coal which has an average thickness of six feet in this mine with a good sandstone roof. Drainage is good. Doors and stoppings are in good condition and the ventilation produced by a seven foot Disc fan is good. No explosive gas is generated and the mine during the winter months is inclined to become dry. The coal is all undercut with electric chain machines and hauled by mules and electric motors. The shooting is all done at night. The mine law in other respects is being complied with.

E. C. LAMBERT, *Gen. Supt. until Apr. 1st.* F. P. McCLOSKEY, *Mine Foreman.*

MORRIS WATTS, *Gen. Mgr. since Apr. 1st.*

J. W. YOST, *Mine Supt. since Apr. 1st.*

THACKER COAL & COKE COMPANY.

P. O. OF MINE, NEW THACKER, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1250. *Thacker No. 10 Mine.*—This mine is located at New Thacker, on the Lick Fork Branch of the N. & W. R. R. It is a drift opening in the Thacker seam of coal, which has an average thickness in this mine of 7 feet, with a good roof. Drainage is good. Doors and stoppings are enough for the life of the mine. Ventilation produced by two furnaces are good. The mine is wet and no explosive gas is generated. The coal is mined by hand picks and hauled by mules. The mine law in other respects is being complied with.

BENJAMIN LEWIS, *Gen. Supt.*

H. L. COX, *Mine Foreman.*

J. M. LEWIS, *Supt.*

THACKER COAL & COKE COMPANY.

P. O. OF MINE, NEW THACKER, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1251. *Thacker Nos. 11, 12, 13 Mines.*—These mines located on the Lick Fork Branch of the N. & W. R. R., are drift openings in the Thacker seam of coal, which has an average thickness of 54 inches in these mines. Drainage is good. Doors and stoppings are in good condition. The ventilation produced by three 7 foot Disc fans and divided into six separate currents is very good. These mines have been found naturally damp and no explosive gas is generated. The cutting and hauling of the coal is all done by electric machines and motors. The mine law in other respects is being complied with.

BENJAMIN LEWIS, *General Supt.*

CHARLES SIGMOND, *Mine Foreman.*

J. N. LEWIS, *Superintendent.*

THACKER COAL & COKE COMPANY.

P. O. OF MINE, THACKER MINES, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1252. *Thackers Nos. 3, 6, 7, 9 Mines.*—These mines located at Thacker Mines, on the Thacker Branch, of the N. & W. R. R., are drift openings in the Thacker seam of coal, which has an average thickness in these mines of 6 feet, with a bad roof. The coal from the four mines comes to one tippie. Doors and stoppings are in good condition. Ventilation produced by four fans is good, except in a few sections. They are naturally damp and no explosive gas

is generated. Coal is undercut with electric chain machines and hauled by mules and electric motors.

T. E. HOUSTON, *Gen. Mgr.*

J. A. WILLIAMS, *Mine Foreman.*

BENJAMIN LEWIS, *Gen. Supt.*

JOHN MASSING, *Mine Foreman.*

J. N. LEWIS, *Supt.*

THACKER COAL & COKE COMPANY.

P. O. OF MINE, THACKER MINES, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1252. *No. 2 Mine.*—This mine is located at Thacker Mines, on the Thacker Branch of the N. & W. R. R. It is a drift opening in the Thacker seam of coal, which has an average thickness of 7 feet in this mine, with a fairly good roof. Drainage is good. Doors and stoppings are good. Ventilation produced by a 1 foot Centrifugal fan is good. The mine is naturally wet and no explosive gas is generated. The coal is undercut with compressed air punching machines and hauled by mules. The mine law in other respects is being complied with.

BENJAMIN LEWIS, *Gen. Supt.*

J. A. WILLIAMS, *Mine Foreman.*

J. N. LEWIS, *Superintendent.*

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

P. O. OF MINE, EDGARTON, W. VA.

General Office of Company, Red Jacket, W. Va.

No. 1253. *Grapewine Mine.*—This mine located near Thacker, on the main line of the N. & W. R. R., is a drift opening in the Thacker seam of coal, which has an average thickness of 7 feet, with a roof that requires careful attention. All the work being done on this mine is extracting pillar coal, and the mine will be worked out in a few more months. The workings now are near the outside and good ventilation is furnished by natural means. The mine is wet and the coal is being mined by picks and hauled by mules. In other respects the mine laws are being complied with.

W. N. CUMMINS, *Gen. Supt.*

FLOYD ATKINS, *Mine Foreman.*

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

P. O. OF MINE, THACKER, W. VA.

General Office of Company, Thacker, W. Va.

No. 1254. *Lick Fork Mine.*—This mine is located on the Lick Fork Branch of the N. & W. R. R. It is a drift opening operating the Thacker seam of coal, which has an average thickness of 6 feet, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a furnace is good. No explosive gas is generated and the mine is generally wet. This mine is nearly worked out, and very little work has been done in it during the year. In other respects the mine law is being complied with.

W. N. CUMMINS, *Gen. Supt.*

WATT STEVENS, *Mine Foreman.*

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

P. O. OF MINE, RED JACKET, W. VA.

General Office of Company, Red Jacket, W. Va.

No. 1255. *Rutherford Mine.*—This mine located near Red Jacket, is a drift opening operating the Thacker seam of coal, which has an average thickness in

this mine of 54 inches, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a 12 foot fan is good. No explosive gas is generated and the mine in general is damp. Coal is under cut with electric chain machines and hauled with electric motors. The mine law in other respects is being complied with. This mine has been idle a quarter of the year.

W. N. CUMMINS, *Gen. Supt.*

W. A. WILSON, *Supt.*

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

P. O. OF MINE, RED JACKET, W. VA.

General Office of Company, Red Jacket, W. Va.

No. 1256. *Red Jacket Mine*.—This mine located at Red Jacket, is a drift opening in the Thacker seam of coal, with an average thickness of 54 inches, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a 15 foot Centrifugal fan is good. The mine is damp and no explosive gas is generated. Coal is undercut with hand picks and electric chain machines and hauled by mules and electric motors. The work being done in this mine is nearly all in extracting pillar coal.

W. N. CUMMINS, *Gen. Supt.*

GEORGE BOYD, *Mine Foreman.*

RED JACKET CONSOLIDATED COAL & COKE COMPANY.

P. O. OF MINE, RED JACKET, W. VA.

General Office of Company, Red Jacket, W. Va.

No. 1257. *Mitchells Branch Mine*.—This mine located at Red Jacket, is a drift opening in the Thacker seam of coal, which has an average thickness of 54 inches, with a good roof. Drainage is good. At the time of the last inspection, temporary doors and stoppings were in use throughout the mine. This is a new mine and it is the intention to construct permanent overcasts and stoppings and install a larger fan which will give ample ventilation to the mine. A 7 foot fan in use at that time gave sufficient ventilation. No explosive gas is generated and the mine was found naturally damp. The coal is undercut with electric chain machines and gathered and hauled by electric motors. This mine with its extensive equipment is prepared to handle a very large tonnage. The mine law in other respects is being complied with.

W. N. CUMMINS, *Gen. Supt.*

JOS. MONTGOMERY, *Mine Foreman.*

W. N. WILSON, *Superintendent.*

RED JACKET JR., COAL COMPANY.

P. O. OF MINE, RED JACKET, W. VA.

General Office of Company, Red Jacket, W. Va.

No. 1258. *Red Jacket Jr., No. 1 Mine*.—This mine located at Red Jacket is a drift opening in the upper bench of the Thacker seam of coal, which has an average thickness of 52 inches, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by an 8 foot Disc fan, split into two separate currents is good. The mine has been found naturally damp and no explosive gas is generated. Coal is undercut with electric chain machines and hauled by electric motors. The mine law in other respects is being complied with.

W. N. CUMMINS, *General Supt.*

HUGH BOYD, *Mine Foreman.*

W. A. WILSON, *Superintendent.*

RED JACKET JR., COAL COMPANY.

P. O. OF MINE, RED JACKET, W. VA.

General Office of Company, Red Jacket, W. Va.

No. 1258. *Red Jacket, Jr., No. 2 Mine.*—This mine located at Red Jacket is a drift opening in the lower bench of the Thacker seam of coal, which has an average thickness of 56 inches, with a good roof. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by an 8 foot fan is well distributed throughout the mine. The mine is damp and no explosive gas is generated. The cutting is done by electric chain machines and hauled by electric motors. The mine law in other respects is being complied with.

W. N. CUMMINS, *General Supt.*HUGH BOYD, *Mine Foreman.*W. A. WILSON, *Superintendent.**MAGNOLIA COAL & COKE COMPANY.*

P. O. OF MINE, MATEWAN, W. VA.

General Office of Company, Kenova, W. Va.

No. 1259. *Magnolia No. 3 Mine.*—This mine is located at Matewan, on the main line of the N. & W. R. R. It is a drift opening in the Thacker seam of coal, which has in this mine an average thickness of 44 inches, with a fairly good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by an 8 foot Disc fan is good. The mine is damp and no explosive gas is generated. Coal is undercut with compressed air punching machines and hauled by mules. In other respects the mine law is being complied with.

JAMES F. BEAVERS, *Pres. & Gen. Mgr.*E. H. SIMPKINS, *Mine Foreman.**MARVIN COAL COMPANY.*

General Office of Company, Matewan, W. Va.

No. 1260. *No. 1 Mine.*—This mine located at Matewan is a drift opening in the Alma seam of coal, which has an average thickness of 41 inches, with a roof that is bad in some sections. Doors and stoppings are in fair condition. Ventilation produced by a furnace was so poor that it was necessary to withdraw a number of the men from the mine on the last inspection. Recommendations have been made repeatedly that a fan be installed at this mine. The mine is generally damp and no explosive gas is generated. Coal is undercut by machines and hauled by mules and electric motors. In other respects the mine law is being complied with.

J. H. WILLIAMS, *Gen. Mgr.*GEORGE L. BOOTH, *Mine Foreman.**MARVIN COAL COMPANY.*

P. O. OF MINE, MATEWAN, W. VA.

General Office of Company, Matewan, W. Va.

No. 1260. *Marvin No. 2 Mine.*—This mine located at Matewan is a drift opening in the Thacker seam of coal, which has an average thickness in this mine of 44 inches, with a roof that is bad in some sections of the mine and requires careful timbering. Drainage is good. Stoppings are in good condition. Some of the doors in use were found in poor condition. The mine was found in damp condition and no explosive gas is generated. Coal is under-

cut with compressed air punching machines and electric chain machines and hauled by mules. The mine law in other respects is being complied with.

J. A. WILLIAMS, *Gen. Mgr.*

G. T. BOOTH, *Mine Foreman.*

GEAT BEND COAL COMPANY.

P. O. OF MINE, SPRIG, W. VA.

No. 1261. *Great Bend Mine.*—This mine located at Sprig, on the N. & W. R. R. is a drift opening in the Alma seam of coal, which has an average thickness of 42 inches, with a fairly good roof. Drainage is good. Doors and stoppings are in good condition. On account of the way in which the fan is installed and the condition of airways, the quantity of ventilation produced by a 12 foot fan is not what it should be, but was found sufficient for the number of men working. The mine is damp and no explosive gas is generated. The coal is undercut with electric chain machines and hauled by mules and electric motors. In other respects the mine law is being complied with.

J. A. WILLIAMS, *Gen. Mgr.*

A. M. WILLIAMS, *Mine Foreman.*

WHITE STAR MINING COMPANY.

P. O. OF MINE, MERRIMAC, W. VA.

General Office of Company, Dayton, Ohio.

No. 1262. *White Star Mine.*—This mine located at Merrimac, on the main line of the N. & W. R. R. It is a drift opening in the Alma seam of coal, which has an average thickness in this mine of 42 inches, with a good roof. Drainage is good. Stoppings are in good condition. The ventilation produced by a 12 foot Centrifugal fan is ample for the needs of the mine, but on the last inspection it was not distributed to all working faces on account of the poor condition of some of the doors. The mine was found damp and no explosive gas is generated. The coal is undercut with compressed air punching machines and hauled by mules and gasoline haulage motors. In other respects the mine law is being complied with.

S. J. PATTERSON, *Pres. & Gen. Mgr.* GEORGE WELCH, *Supt. & Mine Foreman.*

CRYSTAL BLOCK COAL & COKE COMPANY.

P. O. OF MINE, RAWL, W. VA.

General Office of Company, Gary, W. Va.

No. 1263. *Winifrede Mine.*—This mine located at Rawl on the main line of the N. & W. R. R. It is a drift opening in the Winifrede seam of coal, which has an average thickness in this mine of 78 inches, with a sandstone roof. Drainage is good. Stoppings are in good condition. A number of canvas doors in use were not in satisfactory condition. Ventilation produced by a furnace was not found satisfactory. A fan was being installed at the time of the last inspection which will give ample ventilation. The coal is undercut with electric chain machines and hauled to the incline by mules. The mine is damp and no explosive gas is generated. The mine law in other respects is being complied with.

JAMES HORN, *Supt.*

W. B. MANN, *Mine Foreman.*

SYCAMORE COAL COMPANY.

P. O. OF MINE, CINDERELLA, W. VA.

General Office of Company, Vivian, W. Va.

No. 1264. *Cinderella Mine*.—This mine is located five miles from Williamson. It consists of a number of drift openings in the Winifrede seam of coal, which has an average thickness in this mine of 5 feet, with a roof that is bad in some sections and requires careful timbering. In entries and in some of the rooms this bad roof is taken down. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by three fans is very good. The mine has been found damp and no explosive gas is generated. Coal is all under cut by electric chain machines and hauled by mules and electric motors. The way in which this mine is equipped and laid out, it is capable of producing a very large tonnage.

S. W. PATTERSON, *Gen. Mgr.*JOHN CLARK, *Mine Foreman.*EVAN THOMAS, *Supt.*

SUPERIOR THACKER COAL & COKE COMPANY.

P. O. OF MINE, WILLIAMSON, W. VA.

General Office of Company, Williamson, W. Va.

No. 1265. *Superior Thacker Mine*.—This mine located at Williamson is a drift opening in the Thacker seam of coal, which has an average thickness in this mine of 50 inches, with a good roof. Drainage is good. Doors and stoppings are in good condition. At the time of the last inspection, the ventilation was produced by natural means and was found sufficient, but this means of ventilation can not be depended upon at all times. The mine in certain sections is dry and during the winter months will become dusty, if it is not wet by the proper means. No explosive gas is generated. The coal is undercut with electric chain machines and hauled by mules and electric motors. In other respects the mine law is complied with.

E. G. ASBURY, *Gen. Mgr.*BASCOM PRICE, *Mine Foreman.*

WILLIAMSON COAL & COKE COMPANY.

P. O. OF MINE, WILLIAMSON, W. VA.

General Office of Company, Williamson, W. Va.

No. 1266. *Williamson No. 3 Mine*.—This mine located at Williamson, consists of a number of drift openings in the Winifrede seam of coal, which has an average thickness in this mine of 5 feet, with a sandstone roof. Stoppings are in good condition. Some of the doors are in poor condition. Ventilation produced by three furnaces is fairly good. The mine was found damp and no explosive gas is generated. The coal is undercut with compressed air punching machines and electric chain machines and hauled by mules and electric motors. In other respects the mine law is complied with.

E. L. BAILEY, *Gen. Mgr.*H. H. KELLY, *Mine Foreman.*J. F. JONES, *Superintendent.*

E. L. STERNBERGER COAL COMPANY.

P. O. OF MINE, GOODMAN, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1267. *Sternberger Mine*.—This mine located at Goodman, consists of

a number of drift openings operating the Winifrede seam of coal, which has an average thickness in this mine of 6 feet, with a sandstone roof. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by two Disc fans is good. The mine is damp and no explosive gas is generated. The coal is undercut by compressed air post punching machines and hauled by mules and a gasoline motor. Mine law in other respects is complied with.

O. B. GOULD, *Gen. Mgr.* C. P. ANDERSON, *Mine Foreman.*

CHATTAROY COLLIERY COMPANY.

P. O. OF MINE, CHATTAROY, W. VA.

General Office of Company, Chattaroy, W. Va.

No. 1268. *Chattaroy Nos. 1 & 2 Mines.*—These mines located at Chattaroy are drift openings in the Winifrede and Coalsburg seam of coal. Doors and stoppings are in good condition. Drainage is good. Ventilation produced by two Disc fans is good. The mines are damp and no explosive gas is generated. Coal is undercut with compressed air punching machines and hauled by mules and a steam locomotive.

E. W. FREEMAN, *General Mgr.*

A. M. TABOR, *Mine Foreman.*

BUFFALO COLLIERIES COMPANY.

P. O. OF MINE, CHATTAROY, W. VA.

General Office of Company, Chattaroy, W. Va.

No. 1269. *Buffalo Nos. 1 & 2 Mines.*—These mines located at Chattaroy are drift openings in the Winifrede and Coalburg seams of coal, whose average thickness are 52 and 50 inches, with a good roof in the No. 1 mine and a poor roof in the No. 2 mine which requires careful timbering. Doors and stoppings are in good condition. Drainage is good. Ventilation in the No. 1 mine is produced by a 5 foot Sirocco fan is good. In the No. 2 mine the ventilation is produced by a 7 foot Disc fan and is good. The mines are damp and no explosive gas is generated. The coal is undercut by electric chain machines and compressed air punching machines and hauled by mules and electric motors.

S. V. PRESTON, *Gen. Mgr.*

D. S. HOLMES, *Mine Foreman.*

HOWARD JR. COAL COMPANY.

P. O. OF MINE, CHATTAROY, W. VA.

General Office of Company, Chattaroy, W. Va.

No. 1270. *Nos. 1 & 2 Mines.*—These mines located at Chattaroy are drift openings in the Winifrede and Coalburg seams of coal, whose average thickness are 5 feet, with a good sandstone roof in the No. 1 mine, and a slate roof in the Coalburg. Doors and stoppings are in good condition. Drainage is good. The ventilation produced by an 8 foot fan in the No. 1 mine is good. Very little work has been done in the No. 2 mine during the year and the ventilation produced by a furnace is sufficient for the size of the mine. The mines are damp and no explosive gas is generated. The coal is undercut by compressed air punching machines and hauled by mules and a steam locomotive.

F. L. SCHOEW, *Gen. Mgr.*

E. B. VARNEY, *Mine Foreman.*

W. S. ESLER, *Supt.*

HOWARD COLLIERY COMPANY.

P. O. OF MINE, CHATTAROY, W. VA.

General Office of Company, Chattaroy, W. Va.

No. 1271. *Howard Nos. 1 & 2 Mines.*—These mines located at Chattaroy are drift openings in the Winifrede and Coalburg seams of coal, whose average thickness is 5 feet, with a good roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by two Disc fans is good. The mines are damp and no explosive gas is generated. The coal is undercut with compressed air punching machines and hauled by mules and a steam locomotive. The mine law in other respects is being complied with.

F. L. SCHOEWE, *Gen. Mgr.*JOHN KIDWELL, *Mine Foreman.*W. S. ESLER, *Supt.**MARY-HELEN COAL COMPANY.*

P. O. OF MINE, HATFIELD, W. VA.

General Office of Company, Chattaroy, W. Va.

No. 1272. *Mary-Helen Mine.*—This mine located at Hatfield is a drift opening operating the Winifrede seam of coal, which has an average thickness in this mine of 5 feet, with a good sandstone roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a 8 foot Disc fan is good. The mine is damp and no explosive gas is generated. The coal is undercut with compressed air punching machines and electric chain machines and hauled by mules and electric motors. The mine law in other respects is being complied with.

S. V. PRESTON, *Gen. Mgr.*G. T. FARROW, *Mine Foreman.**GRAY EAGLE COAL COMPANY.*

P. O. OF MINE, KERMIT, W. VA.

General Office of Company, Blockton, W. Va.

No. 1273. *Gray Eagle Mine.*—This mine, which was formerly known as the Warfield Coal Company is a shaft opening located on the main line of the N. & W. R. R., near Kermit, operating the No. 2 Gas seam of coal, which has an average thickness of 54 to 60 inches, with a good sandstone roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a furnace is good. A new 12 foot Centrifugal fan is on hand at the mine to be installed. The mine is inclined to become dry in certain sections during the winter months. No explosive gas is generated. The coal is undercut with compressed air punching machines and hauled by mules. The mine law in other respects is being complied with.

S. W. PERRY, *Gen. Mgr.*L. J. BLANKENSHIP, *Mine Foreman.**JAMES R. SHANKLIN COAL COMPANY.*

P. O. OF MINE, BLOCKTON, W. VA.

General Office of Company, Cincinnati, Ohio.

No. 1274. *Naugatuck Mine.*—This mine located at Blockton is a drift opening operating the Coalburg seam of coal, which has an average thickness in this mine of 5 feet, with a roof that is bad in some sections. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a 12 foot Centrifugal fan and divided into two separate splits is very good. The

mine is damp and no explosive gas is generated. The coal is undercut by post punching machines and hauled by mules and a steam locomotive. A new washery is being constructed at this mine to wash the fine coal. The mine law in other respects is being complied with.

S. W. PERRY, *Gen. Supt.*

L. J. BLANKENSHIP, *Mine Foreman.*

WAYNE COUNTY.

EAST LYNN COAL COMPANY.

P. O. OF MINE, EAST LYNN, W. VA.

General Office of Company, East Lynn, W. Va.

No. 1275. *Sagamore Mine.*—This mine located at East Lynn is a drift opening in the Kittanning seam of coal, which has an average thickness of 60 inches, with a good sandstone roof. Drainage is good. Doors and stoppings are in good condition. Ventilation produced by a furnace is good. The mine is wet and no explosive gas is generated. Coal is undercut with electric chain machines and hauled by mules. The mine law in other respects is being complied with.

A. J. PERRY, *Gen. Mgr.*

OKEY LLOYD, *Mine Foreman.*

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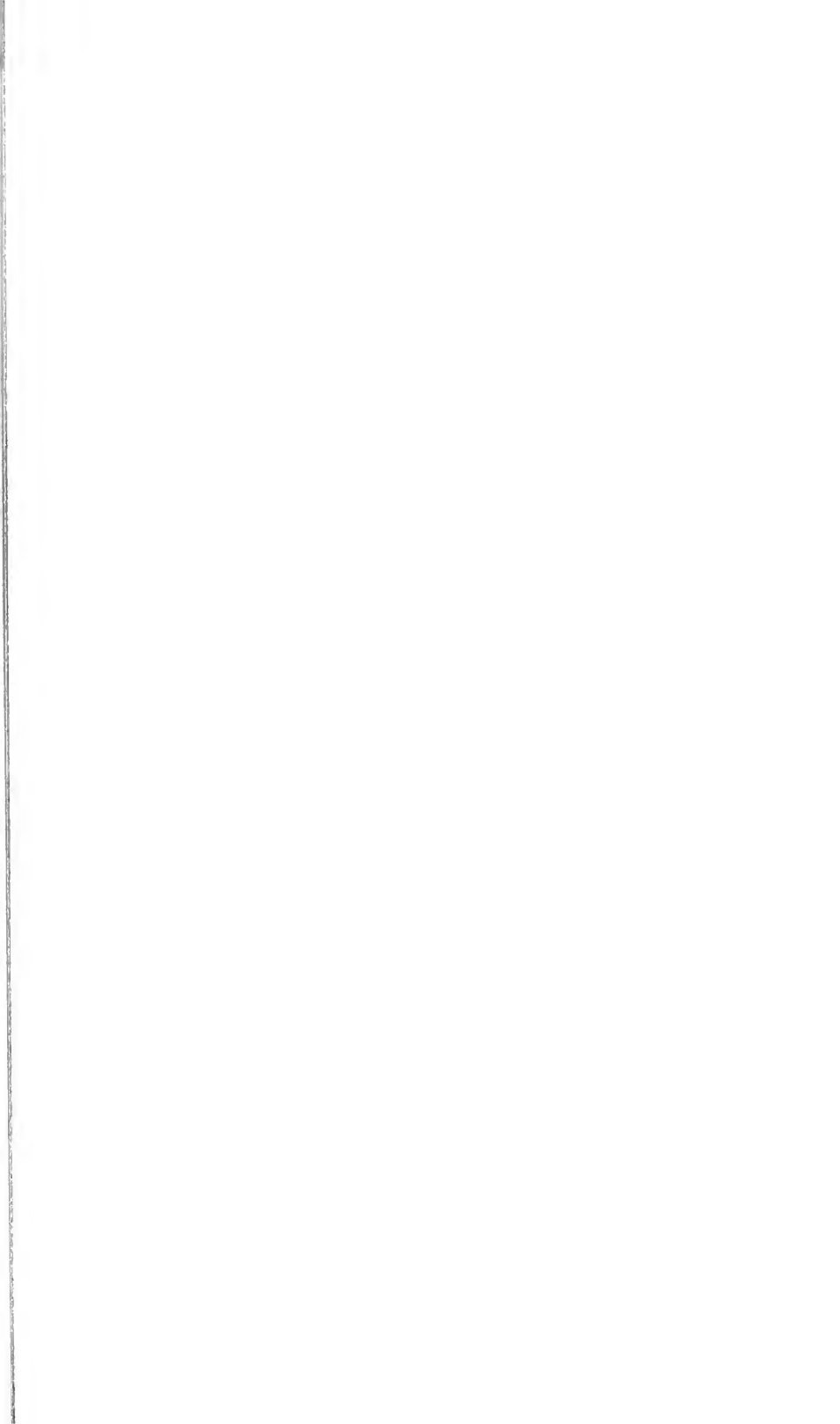
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